

**CONCEPTUAL STUDY  
OF  
ARTICULATED STABLE OCEAN PLATFORM**

**FINAL REPORT  
PART II  
(VOLUME I)**

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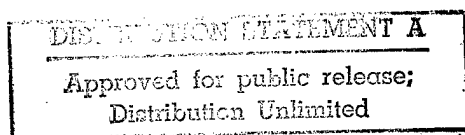
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A conceptual study has been completed to evaluate the feasibility of a new concept of a floating storage platform - the Articulated Stable Ocean Platform (ASOP). The unique aspects of the ASOP is the articulation of the stabilize buoys which were introduced for the purposes of reducing wave load and overall vessel motion. The ASOP was designed to have a fuel storage capability of 1 million barrels and to support a topside up to 12,000 kips in total weight. The fuel storage tanks were designed in such a way that the draft of the platform would remain unchanged at any loading condition without adjusting the ballast. This greatly simplified the operations and allowed the platform to continue other activities while loading and off-loading.

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The study shows that the ASOP has adequate stability and satisfies the stability requirement of the certifying authorities. Both numerical analysis and model test showed that the ASOP offers exceptional motion response characteristics in all its degrees of freedom. In terms of platform motion response, the ASOP is capable of operating in more severe weather conditions than a conventional surface vessel type platform. A seven body (six buoys and the hull) coupled motion analysis in ocean environment was performed and results in general agreed with the model test. However, both numerical analysis and model tests showed that the articulated buoys have no clear advantage over fixed buoys in the global motion of the ASOP. The reduction of forces by using articulation did not significantly improve the motion of the platform. Furthermore, the analysis and model test showed that compared to the fixed buoy case, using articulations increased the slow drift motions of the ASOP in random waves. The study also indicated that the introduction of articulations complicated the hydrostatic stability of the platform. Damaged stability was the governing factor in determination of the size of the articulated buoys. In conclusion, this conceptual study indicated that the fuel storage ASOP is a viable concept. Its large storage capability and exceptional motion characteristics allow many applications both in civil and military purpose.

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**MODEL STUDIES  
OF  
ARTICULATED STABLE  
OCEAN PLATFORM**

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## **ABSTRACT**

A model test program of the ASOP and column shapes and articulations was conducted in January, February, April, and May, 1996 at the deep water and towing basin of Offshore Model Basin. The project was designed to measure:

- Motions and forces during in-place seakeeping tests of the ASOP and the semi-submersible using various buoy articulations and shapes.
- Current loads at the operational draft.

Regular waves with periods from 8 to 20 seconds were used in head seas. In addition, irregular waves with up to 39 ft significant heights were generated.

Buoys were also tested to compare their motions.

## 1.0 INTRODUCTION

### 1.1 OVERVIEW

This report describes a model test program to assess the behavior of the ASOP (Articulated Stable Ocean Platform) and of individual articulated columns. The test program was designed to aid in determining the feasibility of the ASOP concept, and to reinforce the computational analysis.

Tests were conducted in two phases as summarized in Table 1.2. Phase I tested 130 ft and 145 ft draft ASOP configurations with hinged (universal joint mounted) buoys and with buoys suspended on spring lines (six degrees of freedom buoys) for the 130 ft draft. A damage stability test was also conducted. The mooring lines were connected to the corners of the vessel.

Phase II tested various buoy shapes and articulations and buoys with varying quantities of water ballast to damp the buoy motions. Phase II also tested the 145 ft draft ASOP with a more realistic mooring system and with several buoy configurations:

- Hinged (universal joint) and fixed buoys.
- Various buoy diameters.
- Buoys with water ballast.
- An hour glass-shaped buoy.
- An ASOP without center column
- Buoys on spring lines (6 degree-of-freedom)

All results were directly scaled according to the Froude scaling laws listed in Table 1.1

## **1.2 TEST FACILITIES**

The test program was conducted in the deep water wave basin at Offshore Model Basin.

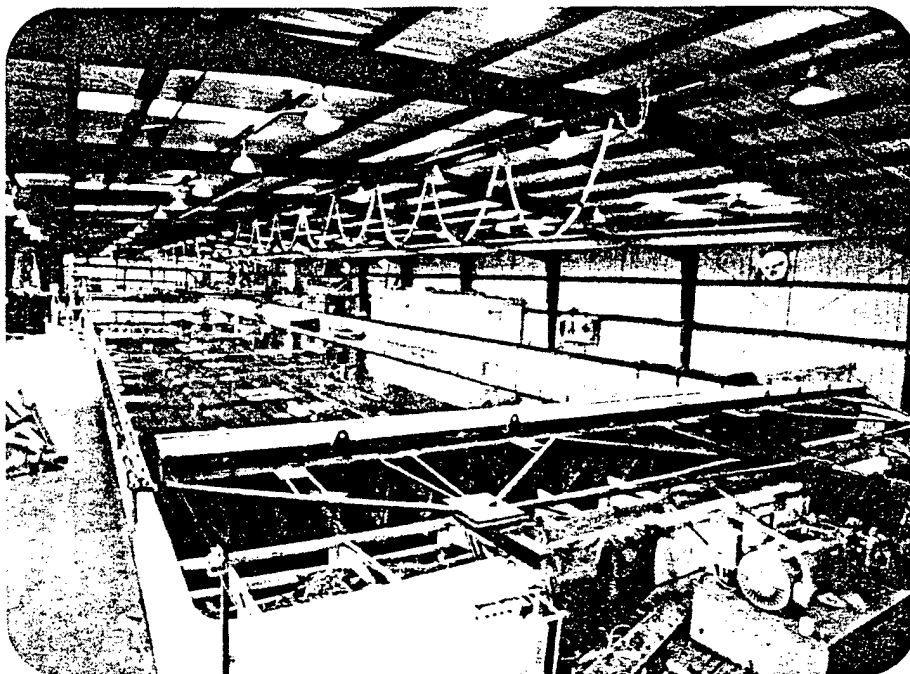
The Deep Water Test Facility is a wave and towing basin 90 meters long, 14.6 meters wide and up to 4.6 meters deep. A deep pit which is 5.8 meters by 5.8 meters by 4.4 meters deep, permits tests in a model water depth of up to 9.0 meters. Vehicles may be towed down the basin at constant speeds ranging from 0.03 to 4.6 meters/second. Simultaneous cross basin motion may be superimposed. The large width permits testing large models at oblique headings with a minimum of reflection problems. The deep water basin is show in Figure 1.1.

Waves are generated with a servo-controlled hydraulically-driven bottom pivoted flap. The maximum height of regular waves is 71 cm, model scale. The range of periods is from .80 to 6 seconds. Irregular waves are generated by exciting the flap with a digital signal which has been stored on disk. The signal is generated by a computer program which uses the inverse fast Fourier transform of any customer-specified power spectral density function.

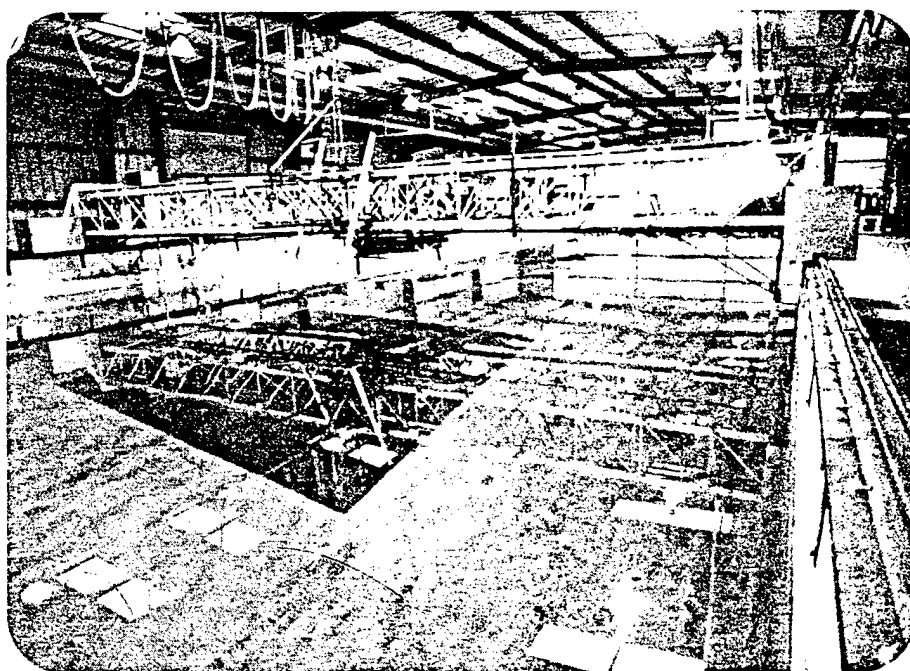
Data is acquired using a PC-driven data acquisition system. Sixty-four channel capacity is standard. For most seakeeping tests, statistics (mean, maximum, minimum and standard deviation) are available within several minutes at the end of wave tests.

The data acquired during the tests is stored on hard disk and backed up on CD-ROM for further processing.

## DEEP WATER WAVE AND TOWING BASIN.



Model Seakeeping Basin



Towing Carriage

FIGURE 1.1

OFFSHORE MODEL BASIN

## SCALING RELATIONSHIPS

The similitude relationships between the model and prototype for the tests performed are based on Froude Number Scaling which assumes gravity as the dominant force. The resulting mathematical relationships between the model and the prototype are summarized in the following table:

<u>Dimension</u>	<u>Ratios of Model to Prototype</u>	<u>Scale Relationship</u>
Length	$L_r = L_m/L_p$	1/
Time	$T_r = (L_r)^{1/2}$	$1/\sqrt{60}$
Force	$F_r = (L_r)^3(\rho_{FW}/\rho_{SW})$	$(1/60^3)(62.4/64)$
Angle	$\theta_r = L_r/L_r$	1/1
Linear Speed	$V_r = L_r/T_r$	$1/\sqrt{60}$
Angular Speed	$\omega_r = \theta_r/T_r$	$\sqrt{60}/1$
Linear Acceleration	$a_r = L_r/(T_r)^2$	1/1
Angular Acceleration	$\alpha_r = \theta_r/(T_r)^2$	60/1

Note: The subscript (p) indicates prototype values, (m) applies to model values, and (r) signifies the ratio of the model to prototype quantities. The additional term in the force relationship accounts for the conversion from sea water to fresh water.

These scale relationships are used to transfer quantitatively the motion, force and time measurements from model to prototype.

Measurements of distances, angles, acceleration induced forces and time can be transferred quantitatively to the prototype equivalents without reservation. Drag induced forces, which arise from viscosity of the water and cannot be scaled to the same ratios as acceleration induced forces, will be slightly higher on the model than the drag experienced by the prototype.

TABLE 1.1

TABLE 1.2A  
LIST OF TEST SERIES - PHASE I

TEST SERIES	MODEL CONFIGURATION	TEST DESCRIPTION
8-25	ASOP, HINGED BUOYS, DRY, 130' DRAFT	WAVE CALIBRATION, PHASE I
101-107		STATIC OFFSET, FREE OSCILLATION
111-123		IN-PLACE SEAKEEPING
130-133		TOWING, OPERATIONAL DRAFT
202-207	ASOP, BUOYS ON SPRING LINES, 30 kip/ft, 130' DRAFT	FREE OSCILLATION
208-223		IN-PLACE SEAKEEPING
311-323	ASOP, 145' DRAFT, HINGED BUOYS	IN-PLACE SEAKEEPING
, 330	ASOP, 130' DRAFT, HINGED BUOYS	DAMAGE STABILITY
340-341	ASOP, BUOY #2 45% FULL IN TOP 3 COMPT'S, 130' DRAFT	BUOY FREE OSCILLATION TEST
351-363		IN-PLACE SEAKEEPING
411-423	ASOP, BUOYS ON SPRING LINES, 45 kip/ft, 130' DRAFT	IN-PLACE SEAKEEPING



TABLE 1.2B  
LIST OF TEST SERIES - PHASE II

TEST SERIES	MODEL CONFIGURATION	TEST DESCRIPTION
502-512		WAVE CALIBRATION, PH. II
510, 521-527	WATER-DAMPED BUOYS ON RIGID BEAM, UNINSTRUMENTED	FREE OSCILLATION WAVE TESTS
A530, A531-A547	SHAPED BUOYS ON RIGID BEAM	FREE OSCILLATION WAVE TESTS
A1203-A1209	BUOY ON CURVED BEAM, UNINSTRUMENTED	WAVE TESTS
A558B-A564 A551-A557 A568-A571	ASOP, 145' DRAFT, - HINGED BUOYS	STATIC OFFSET, FREE OSCILLATION IN-PLACE SEAKEEPING TOWING, OPERATIONAL DRAFT
A580 A581-A587	ASOP, 145' DRAFT - FIXED BUOYS	PITCH FREE OSCILLATION IN-PLACE SEAKEEPING
A590-A592 A593-A599	ASOP, 145' DRAFT, WATER-DAMPED BUOYS, (25% WATER IN TOP 3 COMPARTMENTS)	FREE OSCILLATION IN-PLACE SEAKEEPING
A600-A602 A603-A609	ASOP, 145' DRAFT - HOURGLASS BUOYS	FREE OSCILLATION IN-PLACE SEAKEEPING
A700-A702 A703-A709	ASOP, 145' DRAFT - 52.5' DIA. BUOYS	FREE OSCILLATION IN-PLACE SEAKEEPING
A800-A802 A803-A809	ASOP, 145' DRAFT - 52.5' DIA BUOYS, FIXED BUOYS	FREE OSCILLATION IN-PLACE SEAKEEPING
A900-A902 A903-A909	ASOP, 145' DRAFT - BUOYS ON SPRING LINES, 45 kip/ft	FREE OSCILLATION IN-PLACE SEAKEEPING
A1000-A1002 A1003-A1009	ASOP, NO CENTER COLUMN, 145' DRAFT, - 39' DIA, HINGED BUOYS	FREE OSCILLATION IN-PLACE SEAKEEPING
A1100-1102 A1103-1109	ASOP, NO CENTER COLUMN, 145' DRAFT, - 39' DIA, FIXED BUOYS	FREE OSCILLATION IN-PLACE SEAKEEPING

TABLE 1.3

## LIST OF TESTS PHASE 1

(PHASE I: NOMINAL DRAFT OF 130 ft, MOORING EYES AT VESSEL CORNERS)

MODEL CONFIGURATION	TEST NUMBER	TEST DESCRIPTION	COMMENTS
WAVE CALIBRATION TESTS	#13	9', 8.5 s (TP) PIERSON-MOSKOWITZ IRREG. WAVE	
	#8	20', 11 s JONSWAP IRREG. WAVE, GAMMA = 2, SIGMA A = .07, SIGMA B = .09	
	#11	39', 14.1 s JONSWAP IRREG. WAVE	
	#25	12', 8 s REG. WAVE	
	#22	20', 12.9 s REG. WAVE	
	#24	20', 20 s REG. WAVE	
HINGED BUOYS, DRY, 130' DRAFT, IN-PLACE SEAKEEPING TESTS, PHASE I	#101	STATIC OFFSET TEST	
	#102	SURGE FREE OSCILLATION	
	#103	SWAY FREE OSCILLATION	
	#104	HEAVE FREE OSCILLATION	
	#105	ROLL FREE OSCILLATION	
	#106	PITCH FREE OSCILLATION	
	#107	YAW FREE OSCILLATION	
	#111	12', 8 s. REG WAVE	
	#112	20', 12.9 s. REG WAVE	
	#113	20', 20 s. REG WAVE	
	#121	9', 8.5 s. P-M IRREG WAVE	
TOWING TESTS, OPERATIONAL DRAFT	#122	20', 11 s. JS IRREG WAVE	
	#123	39', 14.1 s. JS IRREG WAVE	
	#130	TOWING, 1 KNOT	
	#131	TOWING, 2 KNOT	
CONSTANT TENSION, 30 KIP/FT, 130' DRAFT, IN-PLACE SEAKEEPING TESTS	#132	TOWING, 3 KNOT	
	#133	TOWING, 4 KNOT	
	#202	SURGE FREE OSCILLATION	
	#203	SWAY FREE OSCILLATION	
	#204	HEAVE FREE OSCILLATION	
	#205	ROLL FREE OSCILLATION	
	#206	PITCH FREE OSCILLATION	
	#207	YAW FREE OSCILLATION	
	#208	12', 8 s. REG WAVE	
	#212	20', 12.9 s. REG WAVE	
	#213	20', 20 s. REG WAVE	
	#221	9', 8.5 s. P-M IRREG WAVE	
	#222	20', 11 s. JS IRREG WAVE	
	#223	39', 14.1 s. JS IRREG WAVE	

TABLE 1.3 (CONT)  
LIST OF TESTS - PHASE I

(PHASE I: NOMINAL DRAFT OF 130 ft, MOORING EYES AT VESSEL CORNERS)

MODEL CONFIGURATION	TEST NUMBER	TEST DESCRIPTION	COMMENTS
145' DRAFT, HINGED BUOYS	#311	12', 8 s. REG WAVE	
	#312	20', 12.9 s. REG WAVE	
	#313	20', 20 s. REG WAVE	
IN-PLACE	#321	9', 8.5 s. P-M IRREG WAVE	
SEAKEEPING	#322	20', 11 s. JS IRREG WAVE	
TESTS	#323	39', 14.1 s. JS IRREG WAVE	
130' DRAFT, HINGED BUOYS	#330	DAMAGE STABILITY, #1 BUOY RELEASE	
BUOY #2,	#340	NAT. PERIOD, DRY BUOY	
45% FULL IN	#341	NAT. PERIOD, WATER DAMPED BUOY	
TOP 3	#351	12', 8 s. REG WAVE	
COMPARTMENTS	#352	20', 12.9 s. REG WAVE	
130' DRAFT	#353	20', 20 s. REG WAVE	
IN-PLACE	#361	9', 8.5 s. P-M IRREG WAVE	
SEAKEEPING	#362	20', 11 s. JM IRREG WAVE	
TESTS	#363	39', 14.1 s. JS IRREG WAVE	
CONSTANT TENSION, 45 KIP/FT, 130'	#411	12', 8 s. REG WAVE	
	#412	20', 12.9 s. REG WAVE	
	#413	20', 20 s. REG WAVE	
DRAFT, IN-PLACE	#421	9', 8.5 s. P-M IRREG WAVE	TEST DATA LOST
SEAKEEPING	#422	20', 11 s. JS IRREG WAVE	
TESTS	#423	39', 14.1 s. JS IRREG WAVE	

TABLE 1.3 (CONT)  
LIST OF TESTS - PHASE II

(PHASE II: DRAFT OF 145 ft; MOORING EYES 60 ft FROM CENTER OF VESSEL, BOTTOM PLATE)

WAVE	#502	20', 18 s REG WAVE	
CALIBRATION	#504	20', 16 s REG WAVE	
TESTS,	#506	20', 14 s REG WAVE	
PHASE II	#508	15', 12 s REG WAVE	
	#510	15', 10 s REG WAVE	
	#511	39', 14.1 s JS IRREG WAVE	
	#512	20', 11 s JS IRREG WAVE	
WATER BUOYS ON	#510	NATURAL PERIOD TESTS	HAND-TIMED
RIGID BEAM, NO	#521	15', 10 s. REG WAVE	
INSTRU-	#522	15', 12 s. REG WAVE	
MENTATION	#523	20', 14 s. REG WAVE	
USED, VISUAL	#524	20', 16 s. REG WAVE	
OBSERVATIONS	#525	20', 18 s. REG WAVE	
AND VIDEO	#526	20', 11 s. JS IRREG WAVE	
RECORD ONLY,	#527	39', 14.1 s. JS IRREG WAVE	
WAVE TESTS			
SHAPED BUOYS	A530	NATURAL PERIOD TESTS	
ON RIGID BEAM,	A531	15', 10 s. REG WAVE	DATA OVERRANGES
WAVE TESTS	A532	15', 12 s. REG WAVE	
	A533	20', 14 s. REG WAVE	
	A534	20', 16 s. REG WAVE	
	A535	20', 18 s. REG WAVE	BT-2 NON-FUNCTIONING
	A536	20', 11 s. JS IRREG WAVE	BT-2 NON-FUNCTIONING, OVERRANGES
	A537	39', 14.1 s. JS IRREG WAVE	BT-2 NON-FUNCTIONING
	A538	20', 18 s. REG WAVE	NEW BUOY/LOAD CELL
	A539	20', 11 s. JS IRREG WAVE	PAIRING
	A540	39', 14.1 s. JS IRREG WAVE	
	A541	15', 10 s. REG WAVE	NEW BUOY/LOAD CELL
	A542	15', 12 s. REG WAVE	PAIRING
	A543	20', 14 s. REG WAVE	
	A544	20', 16 s. REG WAVE	
	A545	20', 18 s. REG WAVE	
	A546	20', 11 s. JS IRREG WAVE	
	A547	39', 14.1 s. JS IRREG WAVE	

TABLE 1.3 (CONT)  
LIST OF TESTS - PHASE II

(PHASE II: DRAFT OF 145 ft; MOORING EYES 60 ft FROM CENTER OF VESSEL, BOTTOM PLATE)

BUOY ON CURVED	A1203	15', 10 s. REG WAVE	
BEAM, VISUAL	A1204	15', 12 s. REG WAVE	
DATA ONLY,	A1205	20', 14 s. REG WAVE	
WAVE TESTS	A1206	20', 16 s. REG WAVE	
	A1207	20', 18 s. REG WAVE	
	A1208	20', 11 s. JS IRREG WAVE	
	A1209	39', 14.1 s. JS IRREG WAVE	
ASOP IN-PLACE	A558B	STATIC OFFSET TEST	
SEAKEEPING	A559	PITCH NAT. PERIOD	
TESTS,	A560	ROLL NAT. PERIOD	
145' DRAFT,	A561	HEAVE NAT. PERIOD	
HINGED BUOYS	A562	SURGE NAT. PERIOD	
	A563	SWAY NAT. PERIOD	
	A564	YAW NAT. PERIOD	
	A559B	PITCH NAT. PERIOD	
	A551	15', 10 s. REG WAVE	
	A552	15', 12 s. REG WAVE	
	A553	20', 14 s. REG WAVE	
	A554	20', 16 s. REG WAVE	
	A555	20', 18 s. REG WAVE	
	A556B	20', 11 s. JS IRREG WAVE	
	A557	39', 14.1 s. JS IRREG WAVE	
ASOP TOWING,	A568	2 KNOTS, FWD	
CALM WATER,	A569	3 KNOTS, REVERSE	
145' DRAFT,	A570	4 KNOTS, FWD	
HINGED BUOYS	A571	5 KNOTS, REVERSE	
ASOP, FIXED	A580	PITCH, NAT. PERIOD	BT GAGES NOT ATTACHED
BUOYS,	A581	15', 10 s. REG WAVE	BT GAGES NOT ATTACHED
145' DRAFT,	A582	15', 12 s. REG WAVE	BT GAGES NOT ATTACHED
IN-PLACE	A583	20', 14 s. REG WAVE	BT GAGES NOT ATTACHED
SEAKEEPING	A584	20', 16 s. REG WAVE	BT GAGES NOT ATTACHED
TESTS	A585	20', 18 s. REG WAVE	BT GAGES NOT ATTACHED
	A586	20', 11 s. JS IRREG WAVE	BT GAGES NOT ATTACHED
	A587	39', 14.1 s. JS IRREG WAVE	BT GAGES NOT ATTACHED

TABLE 1.3 (CONT)  
LIST OF TESTS - PHASE II

(PHASE II: DRAFT OF 145 ft; MOORING EYES 60 ft FROM CENTER OF VESSEL, BOTTOM PLATE)

MODEL CONFIGURATION	TEST NUMBER	TEST DESCRIPTION	COMMENTS
ASOP, WATER	A590	PITCH, NAT. PERIOD	
DAMPED BUOYS	A591	HEAVE, NAT. PERIOD	
25% WATER IN	A592	SURGE, NAT. PERIOD	
TOP 3	A593	15', 10 s. REG WAVE	
COMPARTMENTS,	A594	15', 12 s. REG WAVE	
IN-PLACE	A595	20', 14 s. REG WAVE	
SEAKEEPING	A596	20', 16 s. REG WAVE	
TESTS	A597	20', 18 s. REG WAVE	
145' DRAFT	A598	20', 11 s. JS IRREG WAVE	
	A599	39', 14.1 s. JS IRREG WAVE	
ASOP, HOUR- GLASS BUOYS,	A600	PITCH, NAT. PERIOD	
IN-PLACE	A601	HEAVE, NAT. PERIOD	
SEAKEEPING	A602	SURGE, NAT. PERIOD	
TESTS	A603	15', 10 s. REG WAVE	
145' DRAFT	A604	15', 12 s. REG WAVE	
	A605	20', 14 s. REG WAVE	
	A606	20', 16 s. REG WAVE	
	A607	20', 18 s. REG WAVE	
	A608	20', 11 s. JS IRREG WAVE	
	A609	39', 14.1 s. JS IRREG WAVE	
ASOP, 52.5' DIA. BUOYS,	A708	20', 11 s. JS IRREG WAVE	BT GAGES NOT ATTACHED
IN-PLACE	A709	39', 14.1 s. JS IRREG WAVE	BT GAGES NOT ATTACHED
SEAKEEPING	A700	PITCH, NAT. PERIOD	BT GAGES NOT ATTACHED
TESTS,	A701	HEAVE, NAT. PERIOD	BT GAGES NOT ATTACHED
145' DRAFT	A702	SURGE, NAT. PERIOD	BT GAGES NOT ATTACHED
	A703	15', 10 s. REG WAVE	BT GAGES NOT ATTACHED
	A704	15', 12 s. REG WAVE	BT GAGES NOT ATTACHED
	A705	15', 14 s. REG WAVE	BT GAGES NOT ATTACHED
	A706	15', 16 s. REG WAVE	BT GAGES NOT ATTACHED
	A707	15', 18 s. REG WAVE	BT GAGES NOT ATTACHED
ASOP, FIXED 52.5' DIA. BUOYS,	A800	PITCH, NAT. PERIOD	
IN-PLACE	A801	HEAVE, NAT. PERIOD	
SEAKEEPING	A802	SURGE, NAT. PERIOD	
TESTS,	A803	15', 10 s. REG WAVE	
145' DRAFT	A804	15', 12 s. REG WAVE	
	A805	20', 14 s. REG WAVE	
	A806	20', 16 s. REG WAVE	
	A807	20', 18 s. REG WAVE	
	A808	20', 11 s. JS IRREG WAVE	
	A809	39', 14.1 s. JS IRREG WAVE	



## 2.0 MODELS

The Articulated Stable Ocean Platform (ASOP) is a floating platform with a hexagonal lower hull for storing one million barrels of oil, six articulated buoys, and a center column supporting the upper deck. It is kept on station by a six-point mooring system. Figure 2.1 shows the general arrangement of the ASOP for the:

- 130 ft draft (Figure 2.1-1)
- 145 ft draft (Figure 2.1-1)
- The center column removed and 39 ft diameter buoys. (Figure 2.1-2)

The mooring systems are shown in Figure 2.1-3.

The principal characteristics of the ASOP are shown on Table 2.1.

The buoys are shown in Figure 2.1-4 (the typical buoy supports or articulations), Figure 2.1-5 (the cylindrical buoys), Figure 2.1-6 (the shaped buoys), Figure 2.1-7 (the water-filled buoys) and Figure 2.1-8 (the buoy on a curved guide).

The buoy mass properties are listed at the end of Table 2.1

The ASOP hull model was fabricated out of 1/2-inch PVC sheets and 12"-dia PVC pipe. The pipes were arranged hexagonally around the center column (aluminum tube). The hull bottom plate and the six side plates were opaque PVC while the top plate was clear PVC. Hatches were cut into the top plate to access 18 of the PVC pipes, for which custom ballast weights were manufactured. Aluminum hatch covers sealed the access holes. Air pressure was provided to the lower hull to pressurize each of the PVC pipes and each of the interstitial spaces at all times except for the corner pipes which were free-flooding during the Phase II spring line buoy tests, when all possible air spaces were filled with custom cut architectural closed-cell styrofoam. The ASOP deck was made out of fibreglassed plywood.

The buoy attachments were aluminum brackets, 1/2-inch steel universal joints, plexiglass sleeves, and roller bearings (for the spring line buoys).

The buoys were made out of clear PVC tubes and plates (30' dia buoys), opaque PVC tubes and endplates (52.5' dia buoys), and 2 lb/cu ft styrofoam cut with a computer-controlled hot wire machine and sealed with resin compatible with styrofoam (shaped buoys, 39 ft dia buoy).



The buoys were individually ballasted: each one had its center of gravity set on a knife edge, and its mass moment of inertia was measured and computed by timing its period of oscillation when suspended as a compound pendulum from its ASOP-side universal joint bracket.

The ASOP was ballasted to its design weight, and had its center of gravity adjusted on the tilting ballasting platform shown in Figure 2.1-9. The platform was first adjusted to the proper VCG, it was counterbalanced to balance about this center, then the springs were attached, and the rotational spring constant was measured. The ballasted model was placed on the platform and centered so that its specified CG coincided with the platform's tilt axis. With no springs attached to the platform, the combination of platform with model was tilted to several positions while weights were shifted to reduce to zero any moments tending to move the model off any given tilt position. This achieved the setting of the CG when finally there was no tendency for the model and the platform to move from any tilt position. The radius of gyration was set by attaching the spring, measuring the period of oscillation, computing the radius of gyration, and if necessary, moving the ballast weights, and repeating the above procedure until the measured radius of gyration was sufficiently close to the specified value.

**TABLE 2.1**  
**PRINCIPAL CHARACTERISTICS OF ASOP**

	130' DRAFT		145' DRAFT	
HULL DIAMETER	450'		450'	
HULL HEIGHT	50'		50'	
CENTER COLUMN DIA	60'		60'	
CENTER COLUMN HGT	135'		150'	
	PROTOTYPE MODEL		PROTOTYPE MODEL	
TOTAL DISPLACEMENT (WITHOUT BUOYS) (Kips)	450, 300	450, 300	446, 900	446, 900
KG (WITHOUT BUOY)	32.41'	32.4'	33.29'	33.29'
ROLL RADIUS OF GYRATION	107.6'	106.3'	108.5'	107.7'
PITCH RADIUS OF GYRATION	107.6'	105.7'	108.5'	108'
BUOY DIAMETER: 30'				

FOR 52.5' BUOY DIAMETER: add 16,400 kip deck weight.

FOR CENTER COLUMN

REMOVED, 39' DIA BUOYS: remove 5,500 kip of ballast from lower hull.

**BUOY MASS PROPERTIES:**

BUOY	WEIGHT (KIP)	VCG (ft) (ABOVE U-JOINT)	MASS MOMENT OF INERTIA (kip * ft ** 2)	
			SPECIFIED	ACTUAL
30 ft Dia Cylindrical Phase I	850	55	3,130,000	3,270,000
30 ft Dia Cylindrical Phase II	850	66.5	4,320,000	4,460,000
Hourglass	704	63.9	3,370,000	3,760,000
Inverted Cone	733	78	4,900,000	5,540,000
Segmented, Top	550	31.5	-----	756,000
Segmented, Bottom	250	18.5	-----	114,000
Link Buoy	850	35	1,330,000	1,380,000
52.5 ft Dia	3540	66.5	-----	20,400,000

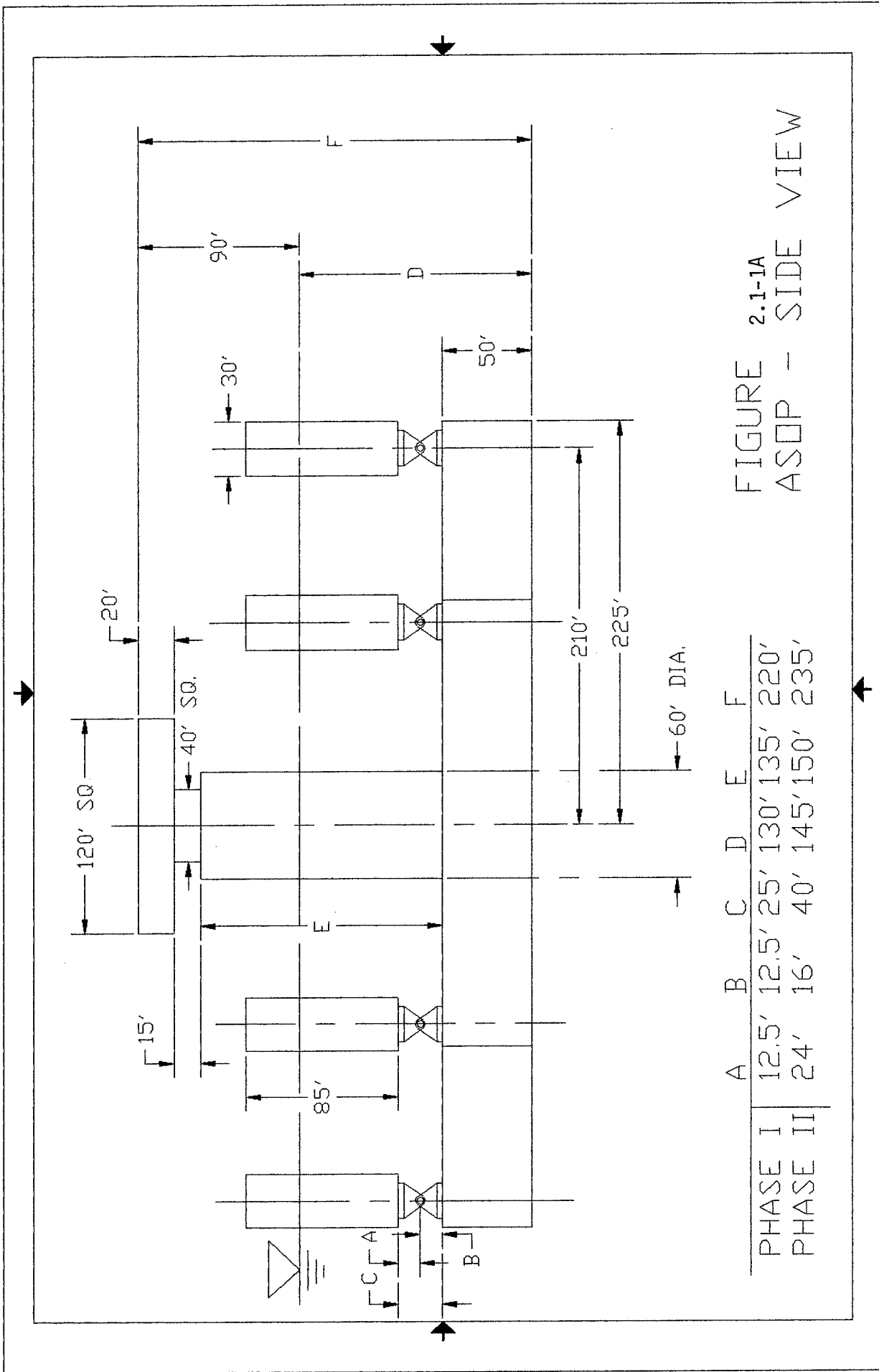


FIGURE 2.1-1A  
ASOP - SIDE VIEW

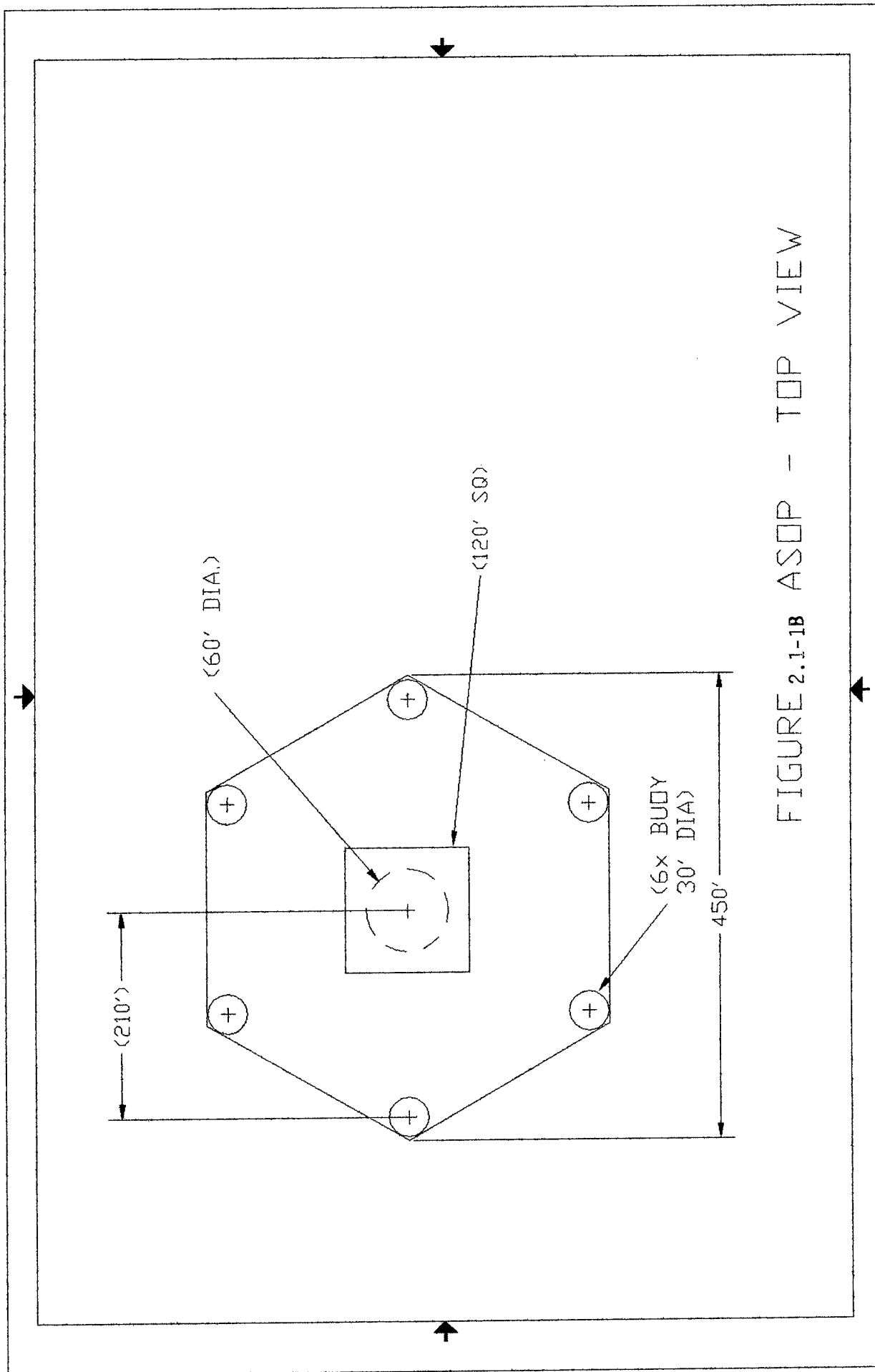


FIGURE 2.1-1B ASOP - TOP VIEW

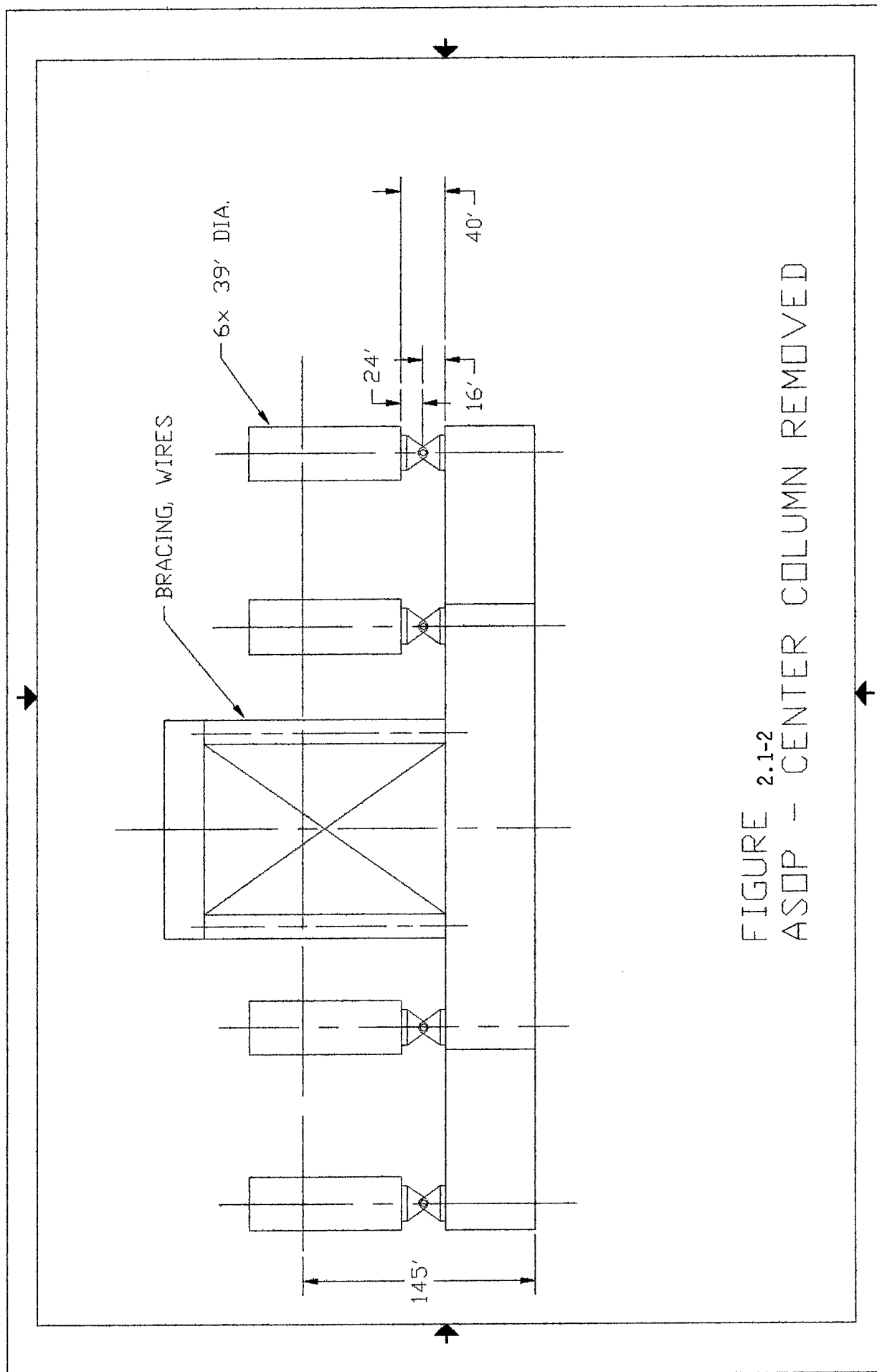
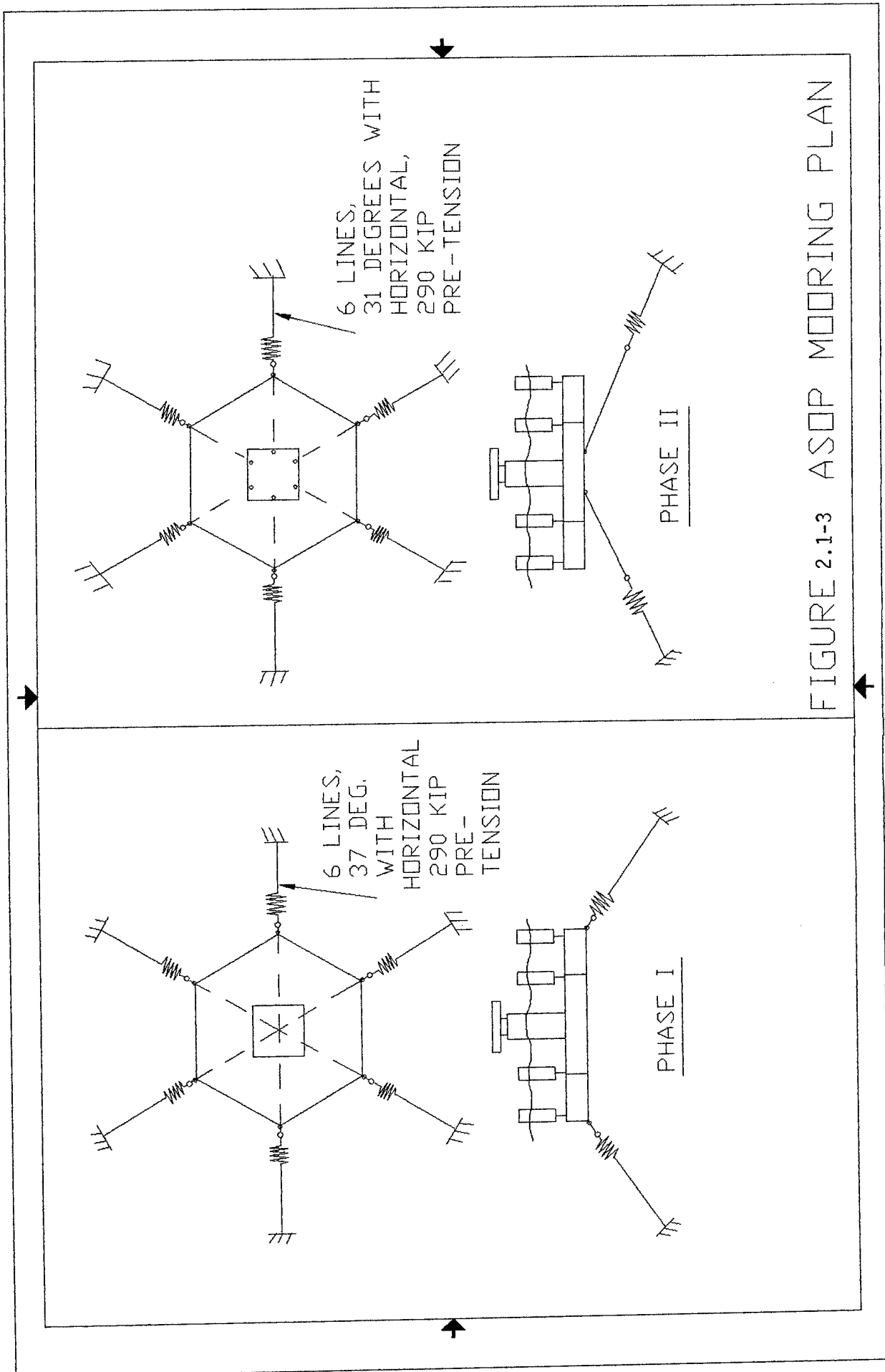


FIGURE 2.1-2  
ASOP - CENTER COLUMN REMOVED



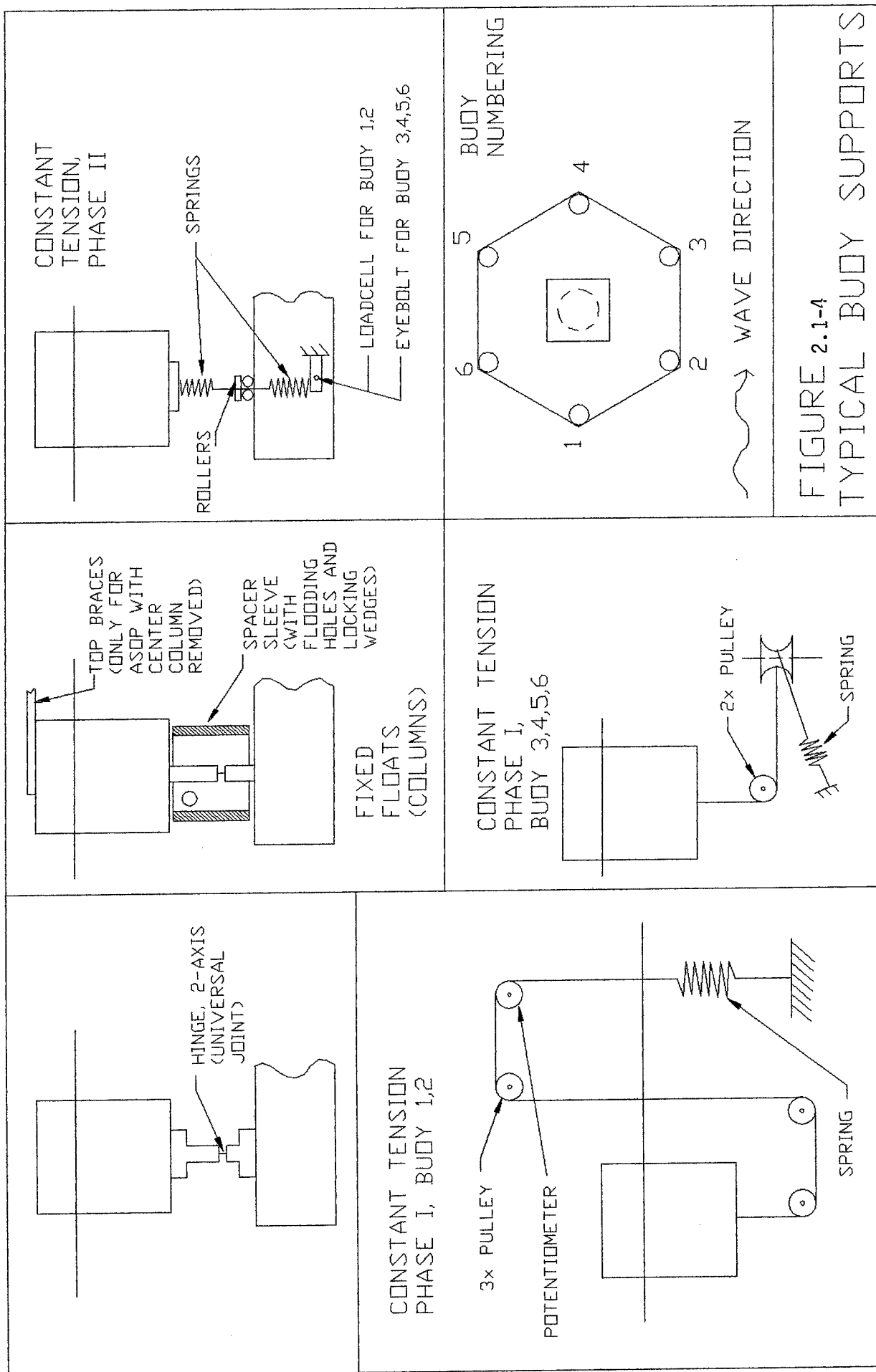


FIGURE 2.1-4  
TYPICAL BODY SUPPORTS

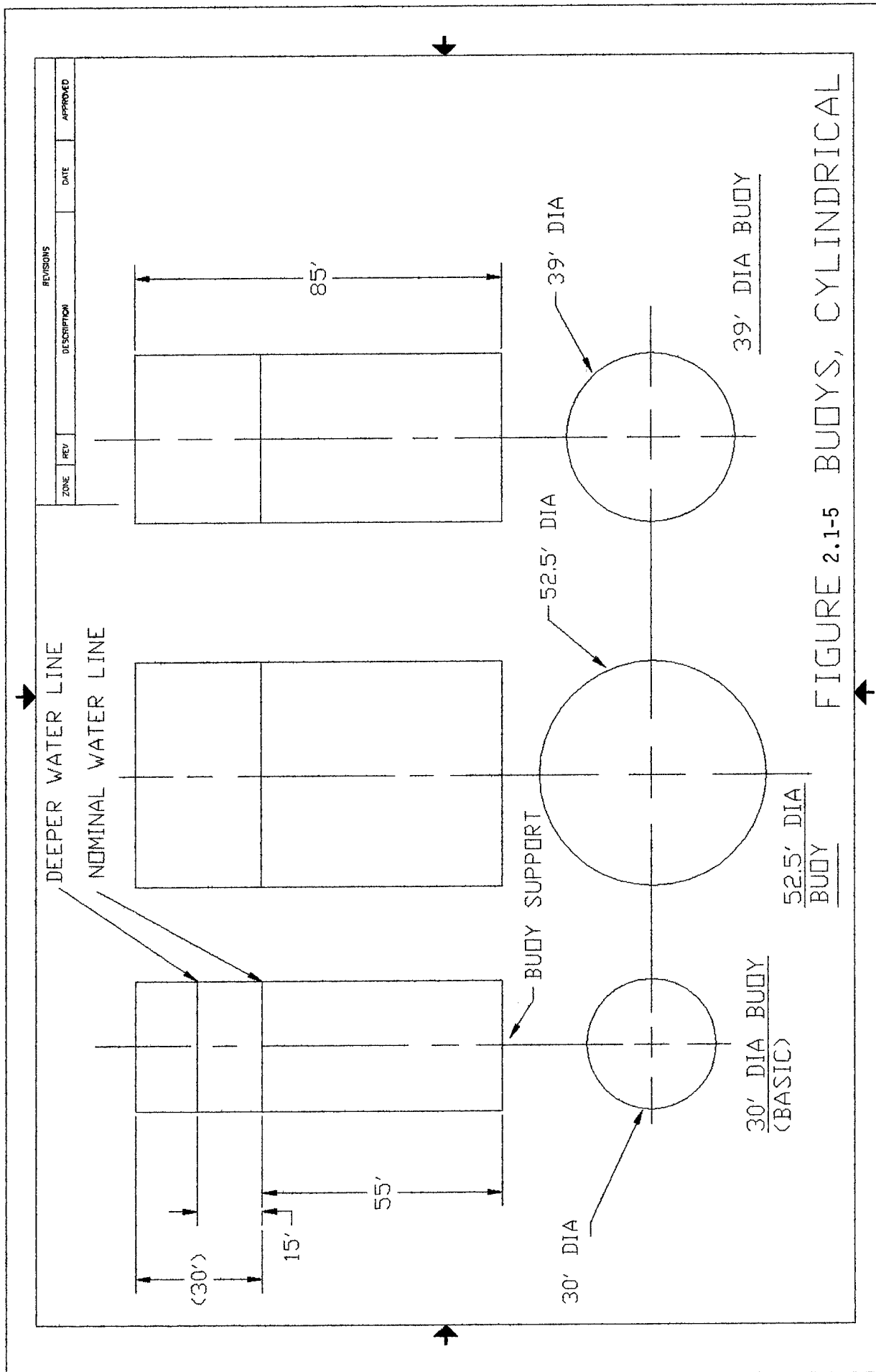
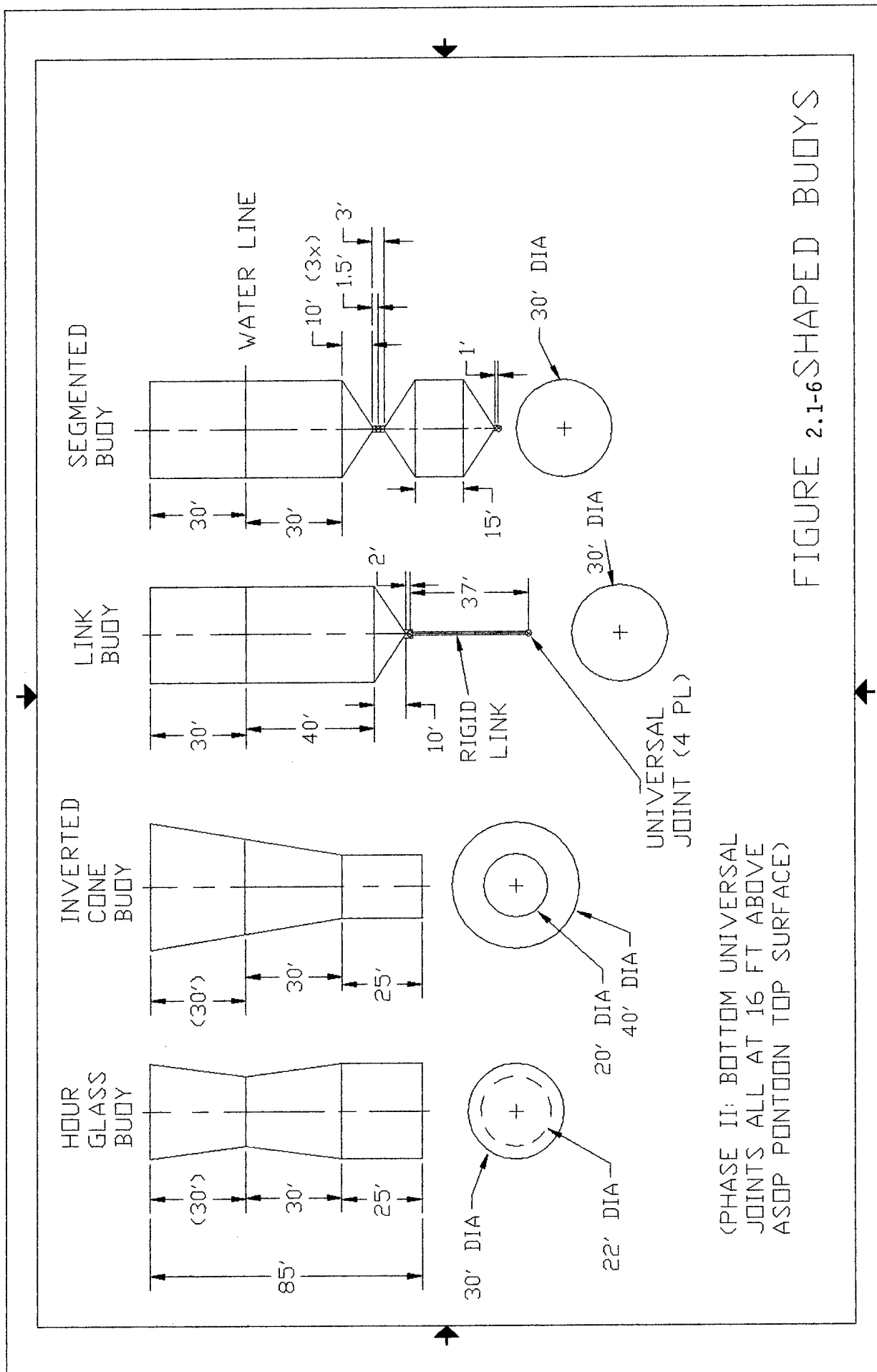


FIGURE 2.1-5 BUDYS, CYLINDRICAL





(PHASE II: BOTTOM UNIVERSAL JOINTS ALL AT 16 FT ABOVE ASDP PONTOON TOP SURFACE)

FIGURE 2.1-6 SHAPED BUOYS

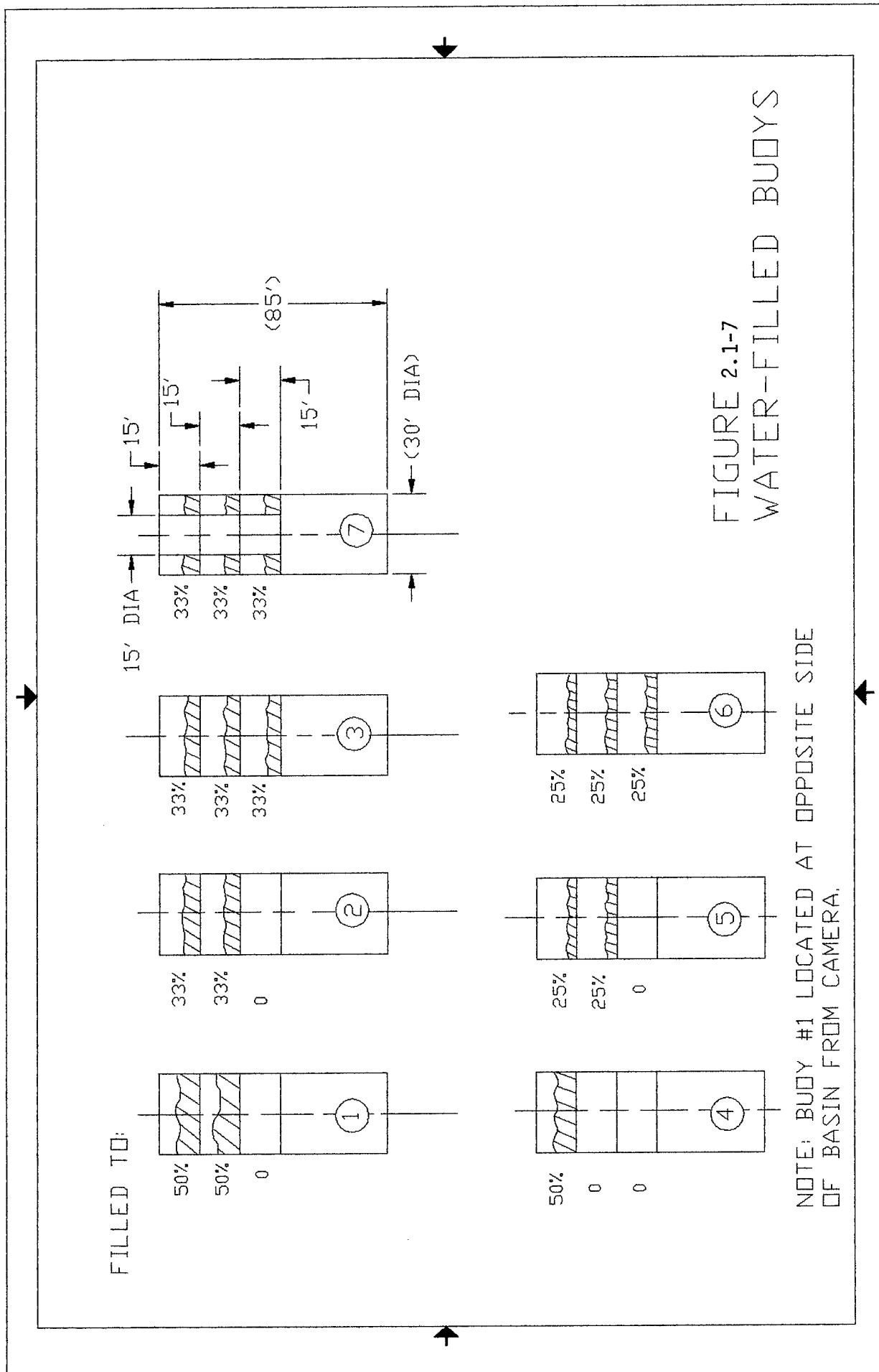


FIGURE 2.1-7  
WATER-FILLED BUOYS

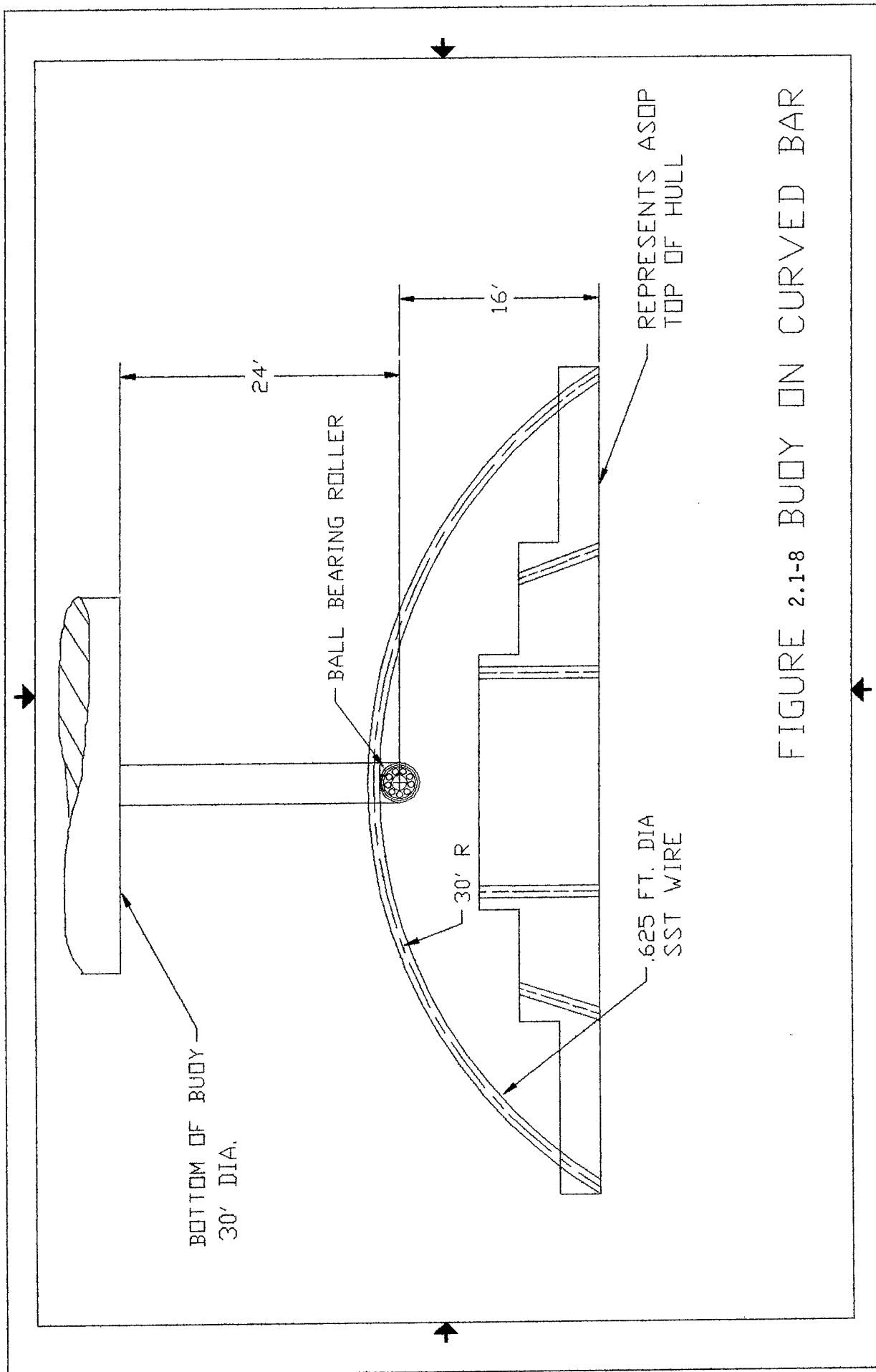
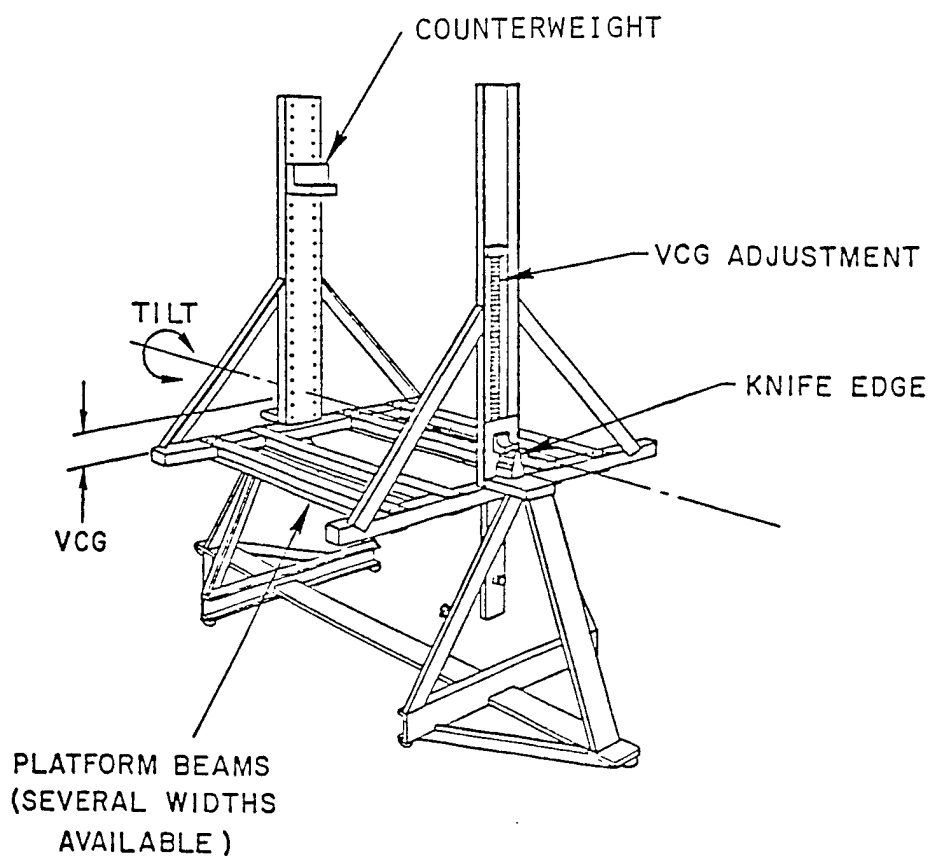


FIGURE 2.1-8 BUOY ON CURVED BAR



Pertinent Equations:

$$I = \frac{Kr}{(2\pi)^2} \tau^2$$

$$I_{\text{Model}} = I_{\text{Platform With Model}} - I_{\text{Platform}}$$

$$I = k^2_m = \left( \text{Gyradius} \right)^2 \left( \frac{\text{weight}}{g} \right)$$

$Kr$  = CALIBRATED ROTATIONAL  
SPRING CONSTANT (ft lb/rad)

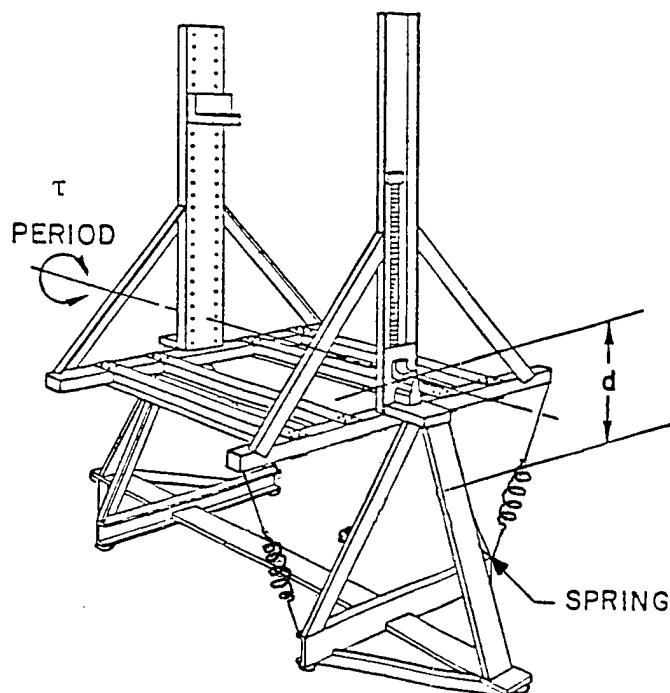


FIGURE 2.1-9 TILTING BALLASTING PLATFORM

Tilt Table Configured for Setting Center of Gravity (Upper Diagram) and Mass Moment of Inertia (Low Diagram, With Spring)

### 3.0 WAVE ENVIRONMENT

Regular and irregular waves were calibrated without any models in the basin during Tests 8-25 and 502-512 as listed in Table 1.3. The wave heights were measured with wave probes at two locations along a transverse line through the center of gravity of the model. Probe WAVE-1 was spaced 2.5 ft (model scale) from the CG, and WAVE-2 was located 16 ft (model scale) from the CG. WAVE-2 was left in position during the actual tests. For the tests of the buoys on a rigid bar, WAVE-2 was moved in line with the buoys. The floating models were centered on the towing carriage, while the buoys were centered 2 ft forward of the towing carriage.

The extension of the hydraulic actuator of the wave flap was measured with a STROKE potentiometer equipped with a spring-loaded reel mounted on the cylinder, connected to the piston rod end with a string.

Appendix C contains the following data outputs:

Statistical printouts for the wave calibration tests, and, for irregular waves, spectral density plots showing the theoretical and actual spectral densities of the sea states, and, for regular wave calibration tests, water elevation time histories. The parameters for the irregular wave spectra were as follows:

Pierson-Moskowitz spectrum: Peak Period

Jonswap: GAMMA = 2, SIGMA A = .07, SIGMA B = .09, Peak Period

The actual seakeeping data runs show that the wave height and stroke is repeatable to about +/- five percent.

The water depth was 780 ft, full scale, for all tests.

## **4.0 TEST DESCRIPTION AND RESULTS**

### **4.1 TEST DESCRIPTION**

The tests listed in Section 1.0 are briefly described in this section. Each test (except the static offset tests) was recorded on videotape and portions of selected tests were filmed with a high speed color motion picture camera at a frame rate of  $24 * (60 ** 0.5) = 186$  frames/sec. Appendix A presents the video log.

#### **4.1.1 STATIC OFFSET TESTS**

Static offset tests of the moored vessels were performed to verify the tension-offset curves for the mooring systems employed and to determine the as-tested mooring stiffnesses. A horizontal line was tied to the corner of the ASOP hull at the bottom of the lower hull and offset forces were applied by leading this line over pulleys and hanging incremental weights on the line while recording the vessel motions and mooring line forces.

#### **4.1.2. FREE DECAY TESTS**

Free decay tests were performed to determine the natural periods of motion and linear damping ratios by recording the motions after deflecting the model in the desired degree of freedom, releasing the model, and allowing the motions to decay.

#### **4.1.3. CURRENT FORCE TESTS**

Current force tests were performed for the ASOP at its operational draft to determine the current reactions in the mooring lines and to observe any vortex induced vibration.

#### **4.1.4 DAMAGE STABILITY TEST**

A damage stability test was performed by modeling the sudden removal of a single buoy. This was accomplished by removing the buoy, supporting the ASOP at the operational draft with a vertical line tied to the corner of the ASOP, and releasing this line while data was being recorded of the undisturbed position and the ensuing motions until a new floating position was reached.

#### **4.1.5 BUOY-ON-A-FIXED-BAR TESTS**

The buoy-on-a-fixed-bar tests were performed to observe the motions of the buoys with varying quantities of ballast water, to observe the shaped buoy motions and to observe the motions of the buoy on the curved bar. In addition, vertical buoy support forces were measured during the shaped buoy test configuration. The test configurations were as follows:

Buoys with ballast water:	See Figure 2.1-7.
Shaped buoys:	See Figure 4.1.6.
Buoy on curved bar:	Compared to 25% full water ballasted buoy

Because of data overranges caused by a fault in the data acquisition wiring, Test A531 and A537 results should be ignored. These tests were re-run during the A541-A547 series.

#### **4.1.6. MOTION TESTS IN WAVES**

Motion tests in waves were performed in unidirectional waves at the operational draft to measure hull motions, mooring forces, the vertical component of buoy connection forces, and the buoy extensions for the spring-line buoy connection.

### **4.2 INSTRUMENTATION AND DATA ANALYSIS**

Measurements made during the test program are summarized in Table 4.2. The mooring line gage and buoy locations are indicated in Figure 2.1-4. The air gap was measured at the forward edge of the ASOP deck, 30 feet, full scale, to starboard. The MST bottom universal joint was fixed 10 feet, full scale, above the center of the deck. The MST is shown in Figure 4.2. The calibration records are presented in Appendix B.

The data was sampled at 9 Hertz, model scale (1.16 Hertz, full scale) for a usual duration in irregular waves of 4096+ data points (7.6 minutes, model scale, or approximately 1 hour, full scale).

For almost all tests, unfiltered analysis was performed on the entire data length, producing ".PRN" or "unfiltered statistics," which list for each data channel the MEAN, RMS, MAX and MIN values (mean, maximum and minimum with respect to a reference signal level recorded at the beginning of a test series when all instruments were vertical, horizontal, at the calm water position, and unloaded). The "unfiltered statistics" also list a value "ZEROS" which is the signal level recorded during a few seconds before the particular test was started.

Also, "filtered statistics" (or ".CSV statistics") were produced, which analyze with an FFT routine  $2^{**}n$  data points, where  $n$  = the largest integer permitted by the data sample, producing statistics for high and low frequency components filtered at .03 Hertz, full scale. These statistics list for selected data channels the mean values, RMS (standard deviation) values, and maximum and minimum values for the low and the high frequency components, as well as for the sum of the low and high frequency components.

## **4.3 TEST RESULTS**

### **4.3.1 STATIC OFFSET TEST RESULTS**

The time history plots of the static offset tests are presented in Figures 4.3.1-1 through 4.3.1-4 for the ASOP, Phase II (Test A558B). The static offset curve is presented in Figures 4.3.1.-5 and 4.3.1-6 for Tests 101 and A558B.

### **4.3.2 NATURAL PERIOD TEST RESULTS**

Natural period test results are summarized in Table 4.3.2, which lists the natural periods and selected linear damping ratios. All natural period test time history plots are contained in Appendix D. The linear damping factor equals the logarithmic decrement divided by (two times  $\pi$ ).

### **4.3.3 CURRENT FORCE TEST RESULTS**

Current force test results are summarized in Table 4.3.3 which lists the average values of surge and mooring line tension after the transient start up reactions have decayed. Appendix J contains the towing test time history plots.

Vortex induced vibrations were negligible to not observable.

### **4.3.4 DAMAGE STABILITY TEST RESULTS**

Damage stability test results for ASOP are presented in the time history plots of Test 330 in Figure 4.3.4.

### **4.3.5 BUOY-ON-A-FIXED-BAR TEST RESULTS**

Time history plots of the vertical buoy reaction forces are presented in Appendix K. The video tapes show the buoy motions.



The water ballasted buoys showed frequency dependent responses which are summarized below, with buoy #6 selected for further testing:

Test 521, 15 ft, 10 sec: #1 and #3 move least.

Test 522, 15 ft, 12 sec: #1, 3 and 6 move least; #2 has large transverse motions.

Test 523, 20 ft, 14 sec: #6 and #7 move least; the others have large transverse motions.

Test 524, 20 ft, 16 sec: #6 and #7 move least; #1, 2, 3 have large transverse motions; #4 and #5 have large motions.

Test 525, 20 ft, 18 sec: all have large motions.

Test 526, 20 ft, Jonswap: #7 moves least; #4 and #5 have very large motions; #1, 2 and 3 have large transverse motions.

Test 527, 39 ft, Jonswap: all have large motions; #2 and #3 have transverse motions.

The shaped buoy configuration also showed frequency dependent behavior, with the hourglass shape selected for further testing.

The surge motions of the buoy on the curved bar were not notably different from its water-ballasted reference buoy.

#### **4.4 RESULTS OF SEAKEEPING TESTS**

The unfiltered statistics of all seakeeping tests are contained in Appendix E.

The filtered statistics of selected data channels of all seakeeping tests are contained in Appendix F.

The RAO and spectral density plots of selected data channels of the irregular wave seakeeping tests are contained in Appendices G and H, respectively.

Appendix I contains the filtered time history plots of selected data channels of the seakeeping tests.

Appendix L contains selected time history plots of the semisubmersible with hinged buoys seakeeping tests.

A summary of the most pertinent motion (heave, pitch, and surge) response amplitude operators in regular and 39 ft irregular waves is presented in Figures 4.4-1 through 4.4-18. The regular wave data points are represented by individual graph symbols while the irregular wave data are plotted as solid or dashed lines. Each set of heave, pitch, and surge RAO plots compares related structure configurations:

Figures 4.4-1 - 4.4-3: ASOP, 130' vs 145' Draft (Phase I, 30' Dia Hinged Buoys)

Figures 4.4-4 - 4.4-6: ASOP, Hinged Buoys vs Fixed Columns, 30' Dia Buoys

Figures 4.4-7 - 4.4-9: ASOP, Hinged Buoys vs Fixed Columns, 52.5' Dia Buoys

Figures 4.4-10 - 4.4-12: ASOP, Hinged Buoys vs Fixed Columns, No Center Column/39 ft Dia Buoys

Figures 4.4-13 - 4.4-15: ASOP, Various Hinged Buoys, Set 1 of 2: 30' Dia vs. 52.5' Dia vs. No Center Column/39' Dia.

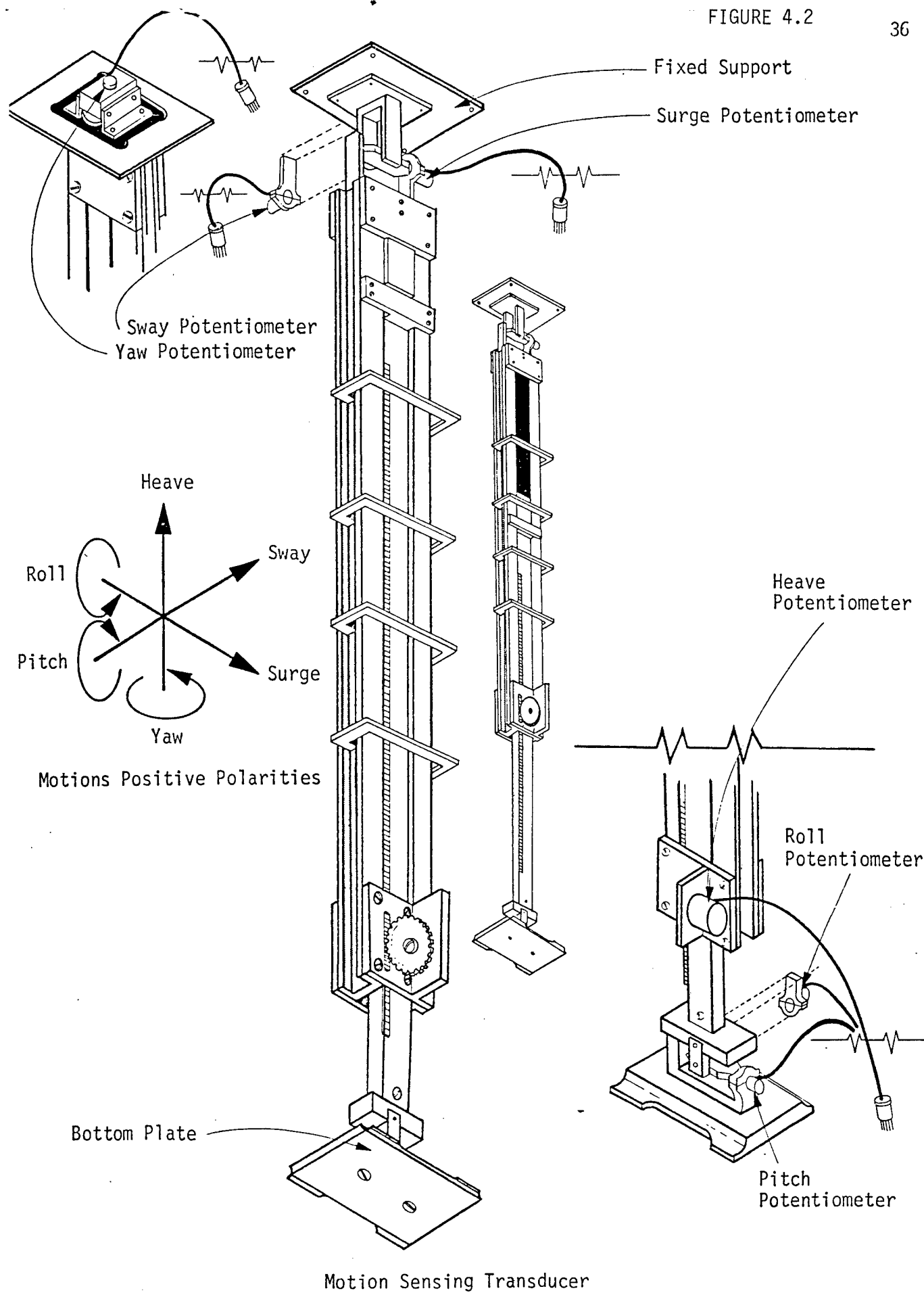
Figures 4.4-16 - 4.4-18: ASOP, Various Articulated Buoys, Set 2 of 2: 30' Dia vs 30' Dia/Water Ballast vs Hour Glass vs Constant Tension (= Spring Line)

The graphs show lower motions at the deeper draft. The ASOP motion comparison show that at some periods some motions are lower for the hinged buoy configuration than for the fixed column arrangement while at other periods the reverse is seen.

The semi-submersible RAO plots for head seas also show period-dependent comparisons, with not much difference in the overall RAO values. (The low transverse static stability was due to the too narrow hull spacing compared with the longitudinal buoy spacing.)

**TABLE 4.2 ASOP INSTRUMENTATION UNIT**

CHANNEL NAME	PARAMETER DESCRIPTION	UNITS	INSTRUMENT	POSITIVE POLARITY
WAVE-2	Water Elevation, Reference	Feet	Capacitance	Above MWL
WAVE-1	Water Elevation, Calibration	Feet	Wave Probe	Above MWL
STROKE	Wave Paddle Motion	Feet	Potentiometer	Paddle Push
AIRGAP	Airgap Reduction of ASOP	Feet	Cap. Wave Probe	Above MWL
ML-1	Mooring Tension in Line 1	KIP	Tension Ring Gage	Tension
ML-2	Mooring Tension in Line 2	KIP	Tension Ring Gage	Tension
ML-3	Mooring Tension in Line 3	KIP	Tension Ring Gage	Tension
ML-4	Mooring Tension in Line 4	KIP	Tension Ring Gage	Tension
ML-5	Mooring Tension in Line 5, ASOP	KIP	Tension Ring Gage	Tension
ML-6	Mooring Tension in Line 6, ASOP	KIP	Tension Ring Gage	Tension
BT-1	Buoy Tension, Vertical, #1, ASOP	KIP	I-Beam Force Gage	Up
BT-2	Buoy Tension, Vertical, #2, ASOP	KIP	I-Beam Force Gage	Up
BEX-1	Buoy Extension, #1, Spring Line, Phase I	Feet	Potentiometer	Up
BEX-2	Buoy Extension, #2, Spring Line, Phase I	Feet	Potentiometer	Up
BT-3	Buoy Tension, Vertical, #3, Buoy-on-Bar	KIP	I-Beam Force Gage	Up
BT-4	Buoy Tension, Vertical #4, Buoy-on-Bar	KIP	I-Beam Force Gage	Up
BT-5	Buoy Tension, Vertical #5, Buoy-on-Bar	KIP	I-Beam Force Gage	Up
BT-6	Buoy Tension, Vertical #6, Buoy-on-Bar	KIP	I-Beam Force Gage	Up
Uncoupled MST Motions:				
MST Surge	Surge of MST Bottom, U-Joint	Feet	MST	Forward
MST Sway	Sway of MST Bottom, U-Joint	Feet	MST	To Port
MST Heave	Heave of MST Bottom, U-Joint	Feet	MST	Up
Roll	Roll	Deg	MST	Stbd Down
Pitch	Pitch	Deg	MST	Bow Down
Yaw	Yaw	Deg	MST	Bow to Port
Pt Surge	Surge of CG	Feet	MST	Forward
Pt Sway	Sway of CG	Feet	MST	To Port
Pt Heave	Heave of CG	Feet	MST	Up



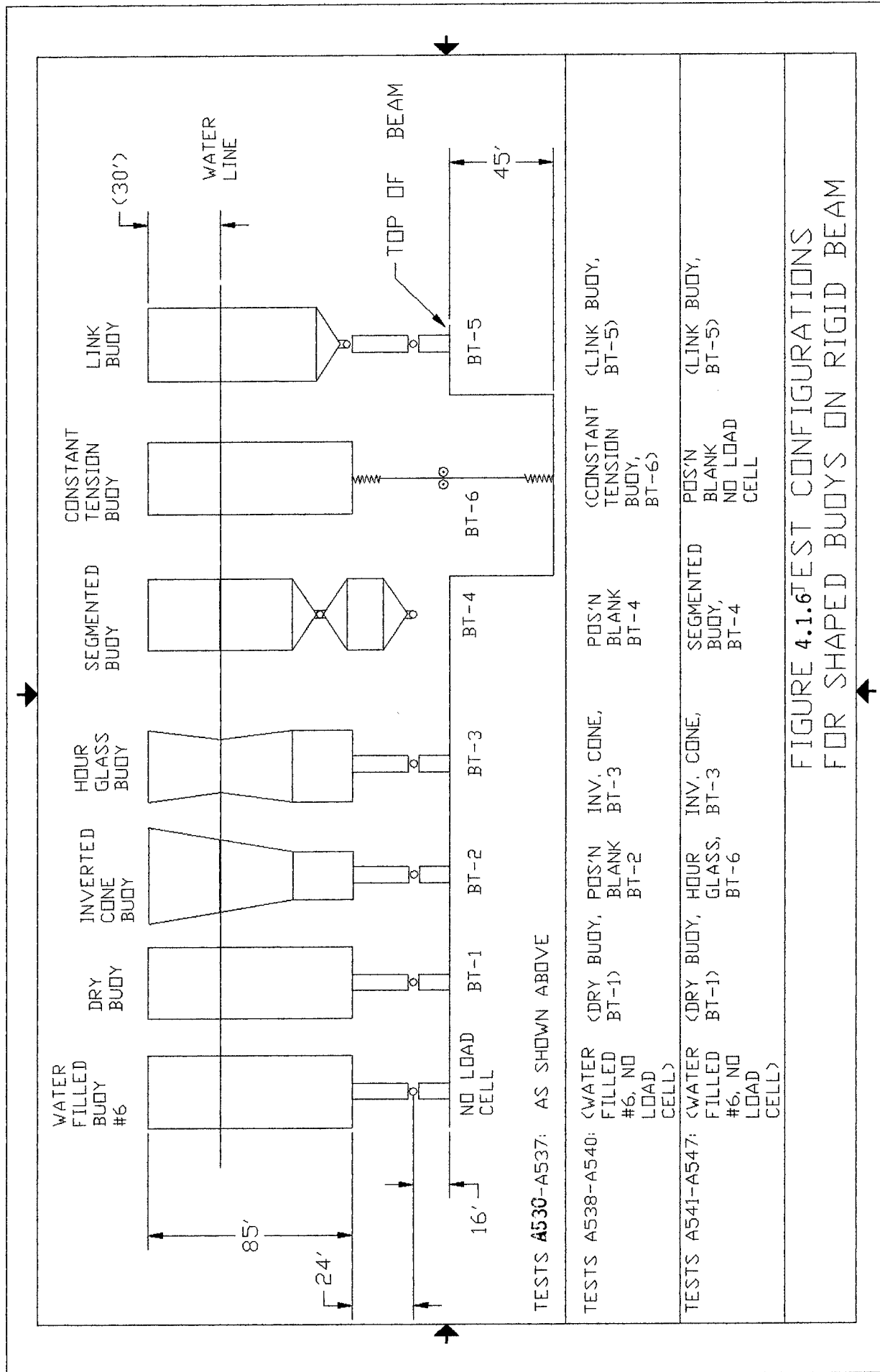


FIGURE 4.1.6 TEST CONFIGURATIONS FOR SHAPED BUOYS ON RIGID BEAM

FIGURE 4.3.1-1 SURGE STATIC OFFSET TIME HISTORY (TEST 558B)

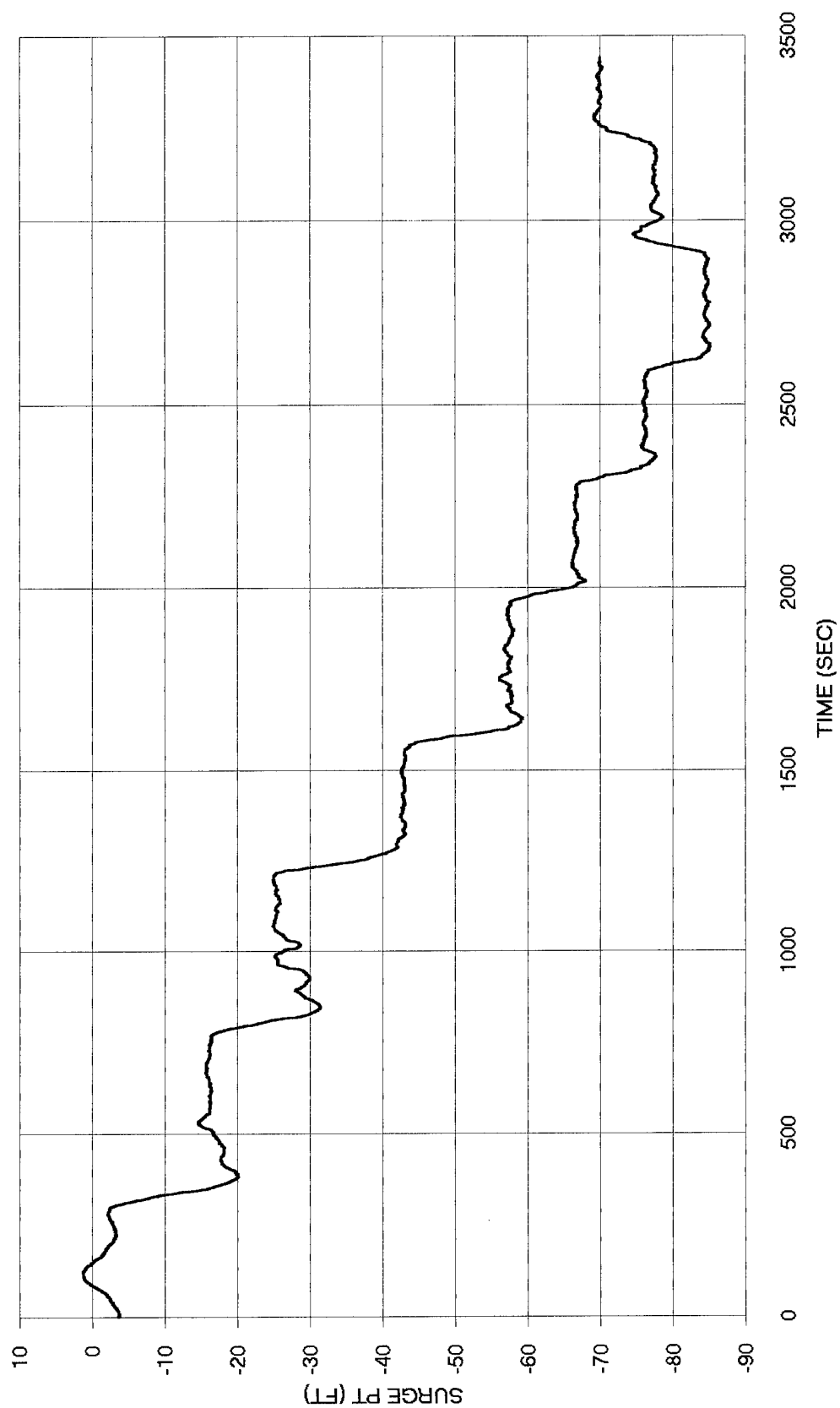


FIGURE 4.3.1-2 SURGE STATIC OFFSET TIME HISTORY (TEST 558B)

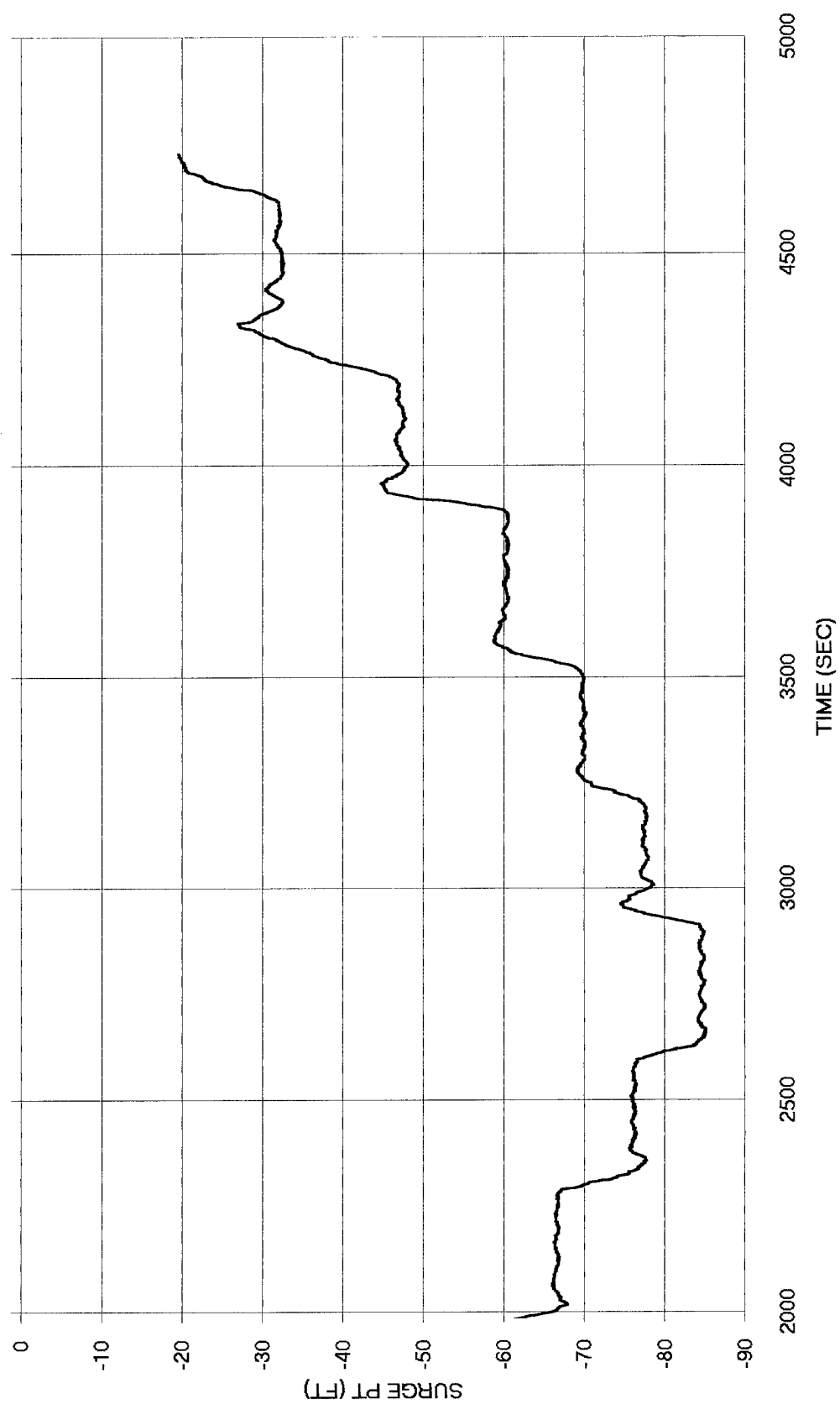


FIGURE 4.3.1-3 ML-1 STATIC OFFSET TIME HISTORY (TEST 558B)

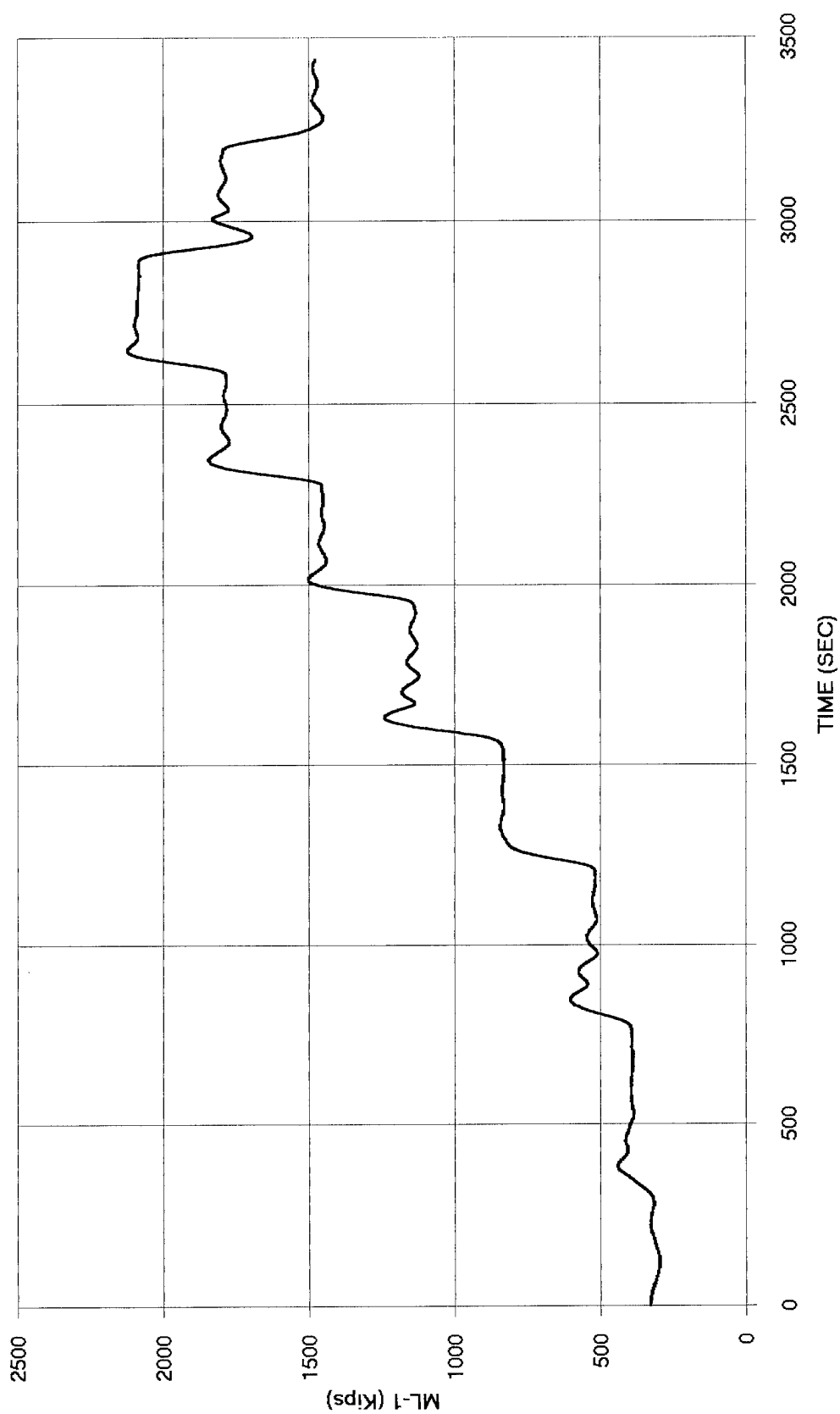




FIGURE 4.3.1-4 ML-1 STATIC OFFSET TIME HISTORY (TEST 558B)

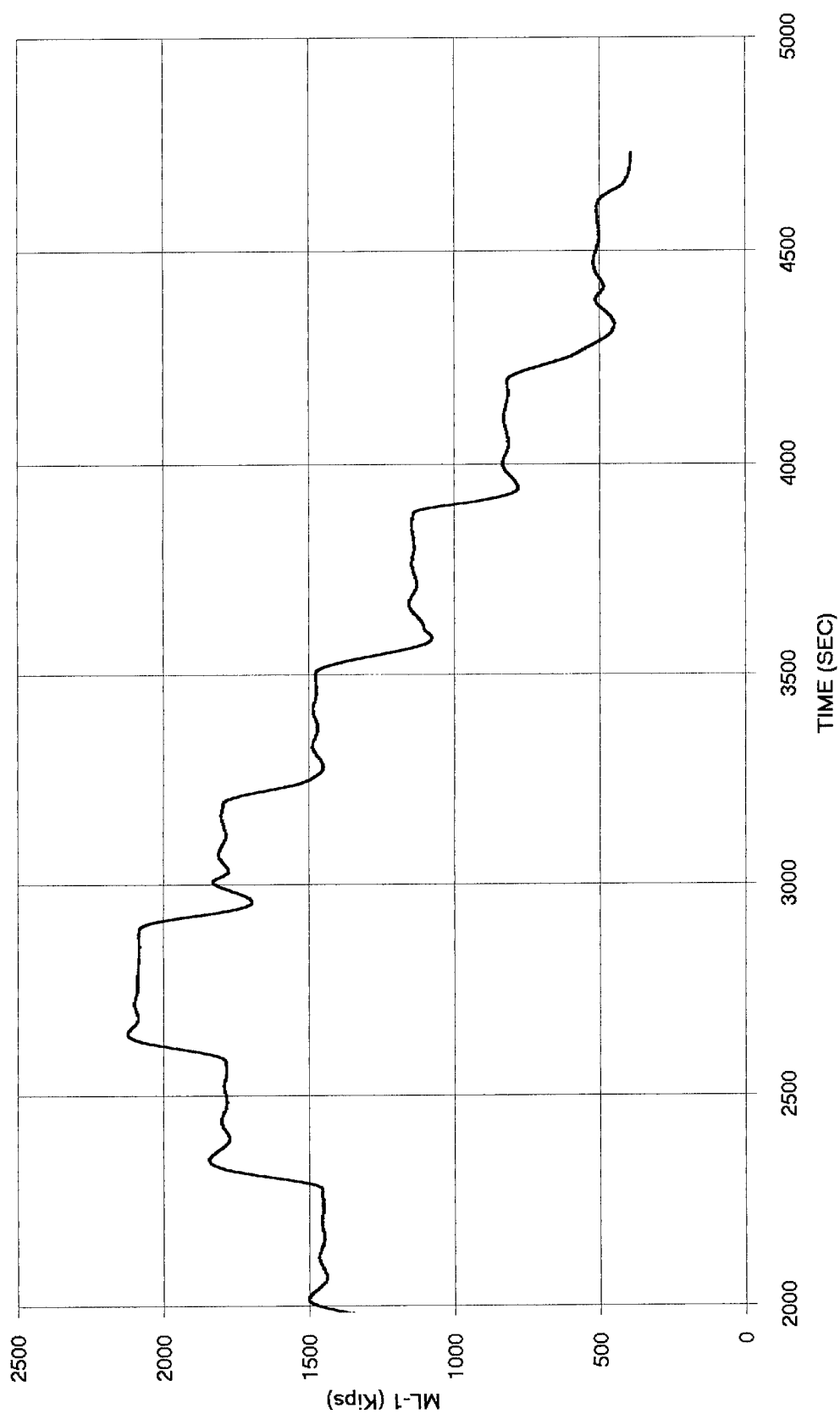


FIGURE 4.3.1 SYSTEM STATIC OFFSET CURVE, ASDP, PHASE I (TEST 101)

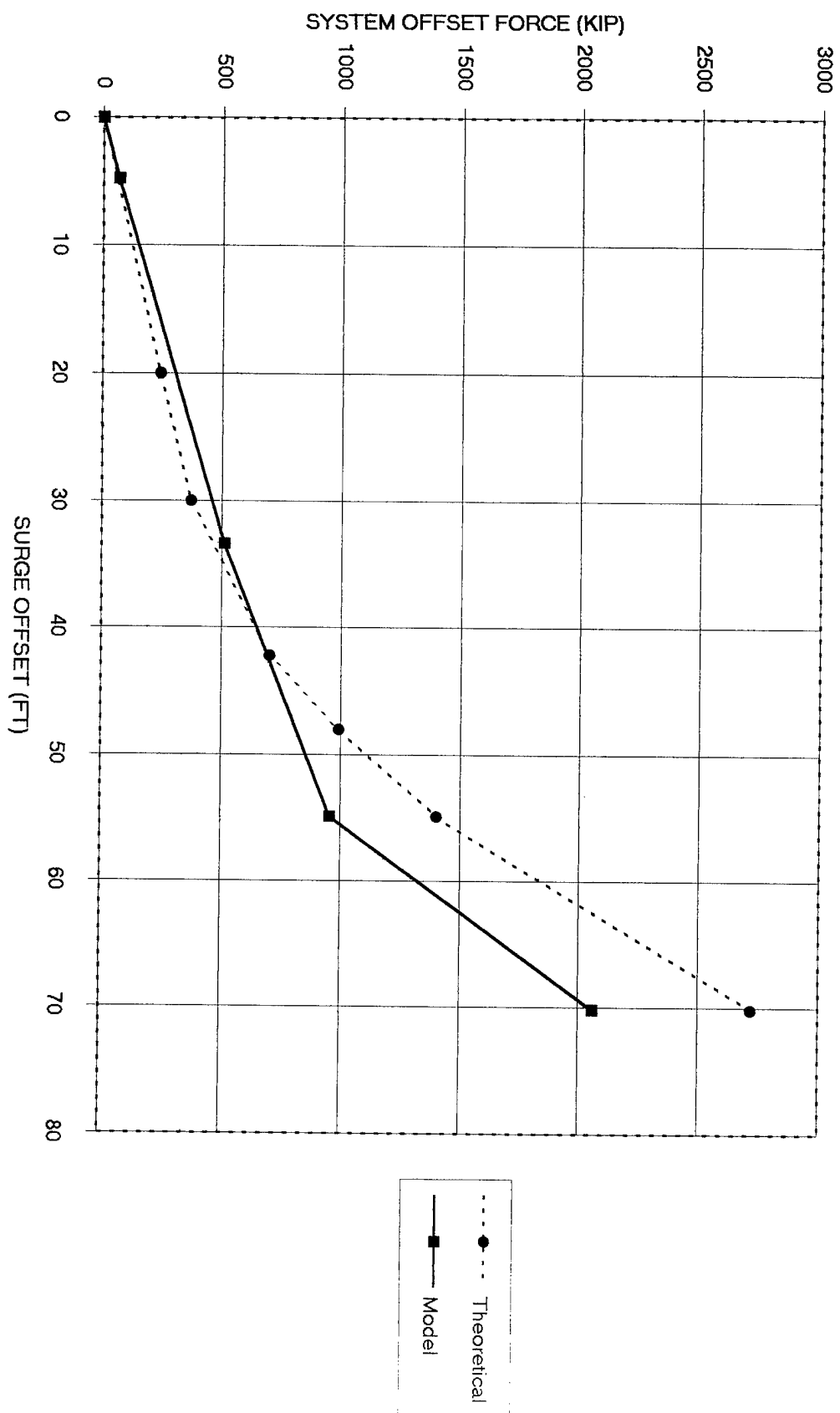


FIGURE 4.3.1-6 SYSTEM STATIC OFFSET CURVE ASOP PHASE II (TEST 558B)

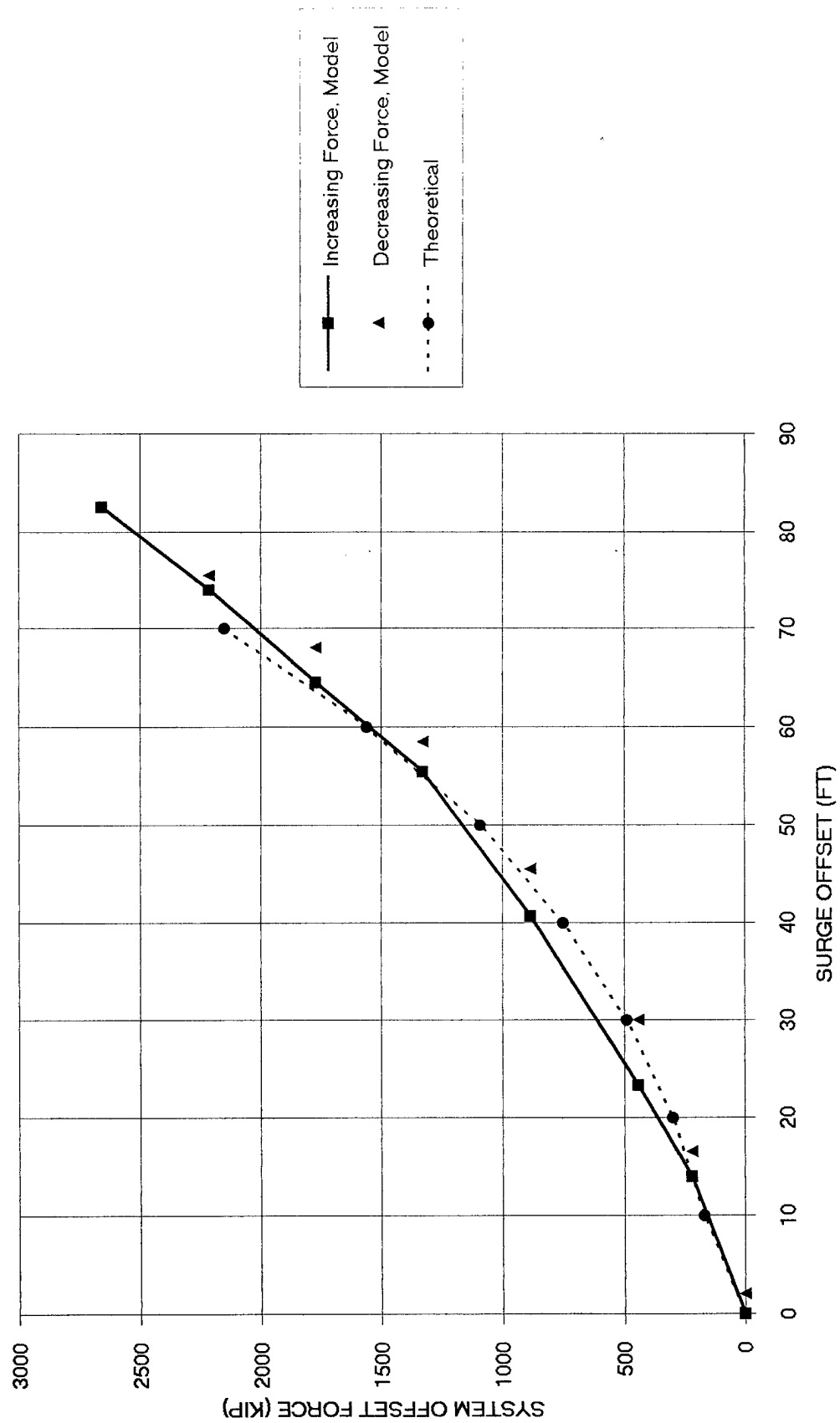


TABLE 4.3.2      DECAY TEST RESULTS

TEST MODEL NR.	CONFIGURATION	MOTION	NATURAL PERIOD (SEC)	CRITICAL DAMPING
102	ASOP, Phase I,	Surge	188	-
103	Hinged Buoys, 130' Draft	Sway	195	-
104		Heave	81	-
105		Roll	62.4	-
106		Pitch	61	-
107		Yaw	170	-
202	ASOP, Phase I, Constant	Surge	188	-
203	Tension Buoys, 130' Draft	Sway	193	-
204		Heave	92.9	-
205		Roll	91	-
206		Pitch	83	-
207		Yaw	167	-
A510	Water Filled #1	Pitch	31.2	-
A510	Water Filled #2	Pitch	22.5	
A510	Water Filled #3	Pitch	27.8	
A510	Water Filled #4	Pitch	19.4	
A510	Water Filled #5	Pitch	18.5	
A510	Water Filled #6	Pitch	22.1	
A510	Water Filled #7	Pitch	22.4	
A530	Buoy, Water Ballast	Pitch	21.2	-
A530	Buoy, Dry, on Bar	Pitch	14.0	-
A530	Buoy, Inverted Cone, on Bar	Pitch	20.3	-
A530	Buoy, Hourglass, on Bar	Pitch	13.8	-
A530	Buoy, Segmented, on Bar	Pitch	12.8	-
A530	Buoy, Const. Tension, on Bar	Pitch	15.7	-
A530	Buoy, Link, on Bar	Pitch	15.2	-
A559B	ASOP, Phase II, Hinged	Pitch	70	.033
A560	Buoys, 145' Draft	Roll	69	.034
A561		Heave	81	.027
A562		Surge	212	.042
A563		Sway	212	.026
A564		Yaw	350	.055

TABLE 4.3.2 CONTINUED

TEST MODEL NR.	CONFIGURATION	MOTION	NATURAL PERIOD (SEC)	CRITICAL DAMPING
A580	ASOP, Fixed Buoys, 145' Draft	Pitch	67	.034
A590	ASOP, Water Damped,	Pitch	66.4	-
A591	145' Draft	Heave	81	-
A592		Surge	212	-
A600	ASOP, Hourglass,	Pitch	108	-
A601	145' Draft	Heave	93	-
A602		Surge	217	-
A700	ASOP, Hinged, 52.5' DIA	Pitch	38	-
A701	Buoy, 145' Draft	Heave	54	-
A702		Surge	228	-
A800	ASOP, Fixed 52.5' DIA	Pitch	37	-
A801	DIA Buoy, 145' Draft	Heave	53.9	-
A802		Surge	228	-
A900	ASOP, Spring Line	Pitch	116	-
A901	(Const. Tension) Buoys,	Heave	96	-
A902	145' Draft	Surge	215	-
A1000	ASOP, No Ctr Col,	Pitch	48.5	-
A1001	39' DIA Buoys, Hinged,	Heave	80.8	-
A1002	145' Draft	Surge	217	-
A1100	ASOP, No Ctr Col,	Pitch	46.5	-
A1101	39' DIA Buoys,	Heave	81	-
A1102	Fixed, 145' Draft	Surge	216	-

TABLE 4.3.3 PHASE I

## TOWING TEST AVERAGE VALUES

TEST #130			TEST #131		
CHANNEL	VALUE	UNITS	CHANNEL	VALUE	UNITS
PT SURGE	-6.	FEET	PT SURGE	-21.	FEET
ML-1	100	KIPS	ML-1	182	KIPS
ML-2	205	KIPS	ML-2	252	KIPS
ML-3	215	KIPS	ML-3	185	KIPS
ML-4	184	KIPS	ML-4	103	KIPS
ML-5	195	KIPS	ML-5	246	KIPS
ML-6	236	KIPS	ML-6	307	KIPS
TEST #132			#133		
CHANNEL	VALUE	UNITS	CHANNEL	VALUE	UNITS
PT SURGE	-56	FEET	PT SURGE	-79	FEET
ML-1	360	KIPS	ML-1	896	KIPS
ML-2	334	KIPS	ML-2	431	KIPS
ML-3	147	KIPS	ML-3	145	KIPS
ML-4	34	KIPS	ML-4	23	KIPS
ML-5	196	KIPS	ML-5	181	KIPS
ML-6	413	KIPS	ML-6	512	KIPS

**TABLE 4.3.3 PHASE II**  
**TOWING TEST AVERAGE VALUES**

**TEST #A568**

<b>CHANNEL</b>	<b>VALUE</b>	<b>UNITS</b>
PT SURGE	-21	FEET
ML-1	440	KIPS
ML-2	373	KIPS
ML-3	250	KIPS
ML-4	167	KIPS
ML-5	230	KIPS
ML-6	342	KIPS

**TEST #A569**

<b>CHANNEL</b>	<b>VALUE</b>	<b>UNITS</b>
PT SURGE	55	FEET
ML-1	80	KIPS
ML-2	191	KIPS
ML-3	441	KIPS
ML-4	724	KIPS
ML-5	418	KIPS
ML-6	178	KIPS

**TEST #A570**

<b>CHANNEL</b>	<b>VALUE</b>	<b>UNITS</b>
PT SURGE	-67	FEET
ML-1	1333	KIPS
ML-2	658	KIPS
ML-3	192	KIPS
ML-4	34	KIPS
ML-5	169	KIPS
ML-6	524	KIPS

**TEST #A571**

<b>CHANNEL</b>	<b>VALUE</b>	<b>UNITS</b>
PT SURGE	107	FEET
ML-1	97	KIPS
ML-2	183	KIPS
ML-3	830	KIPS
ML-4	1970	KIPS
ML-5	761	KIPS
ML-6	184	KIPS

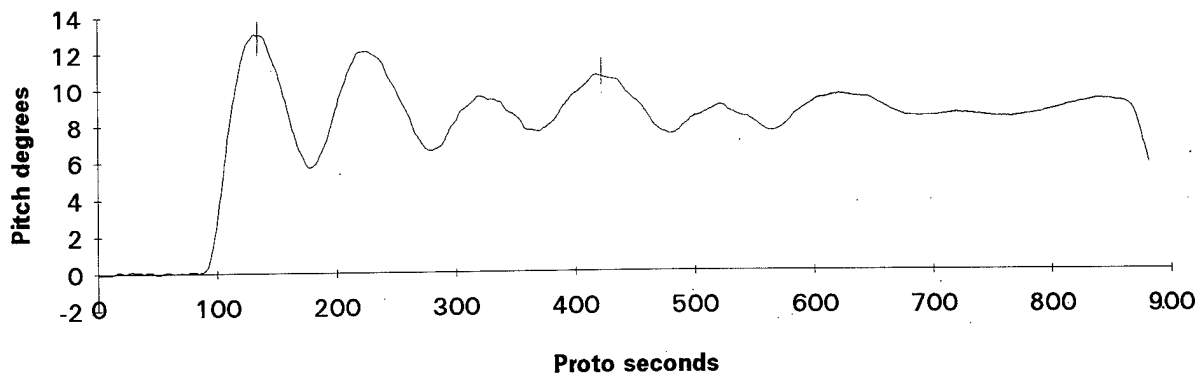
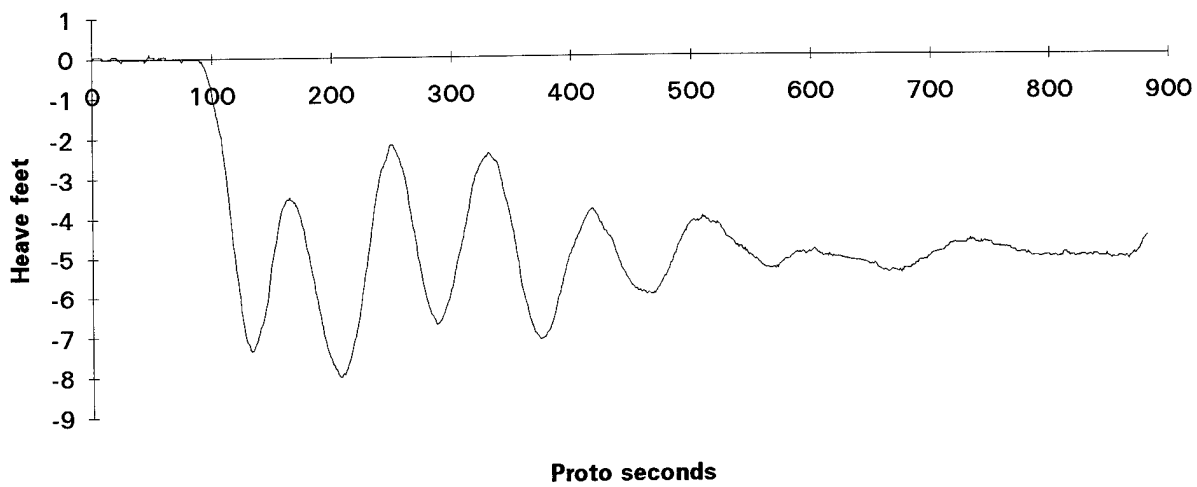
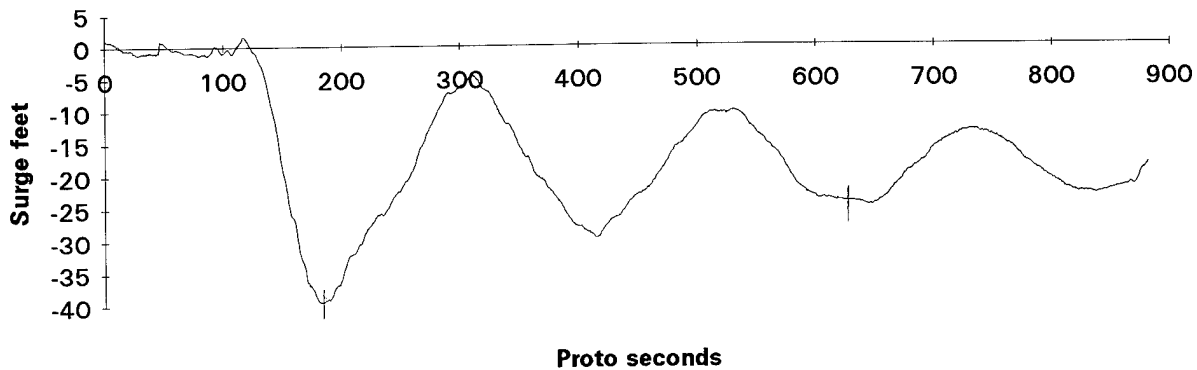
**330 - Pitch response****330 - Heave****330 - Surge**



FIGURE 4.4-1 HEAVE RAO FOR ASOP, 30' DIA ARTICULATED COLUMNS, CORNER MOORING

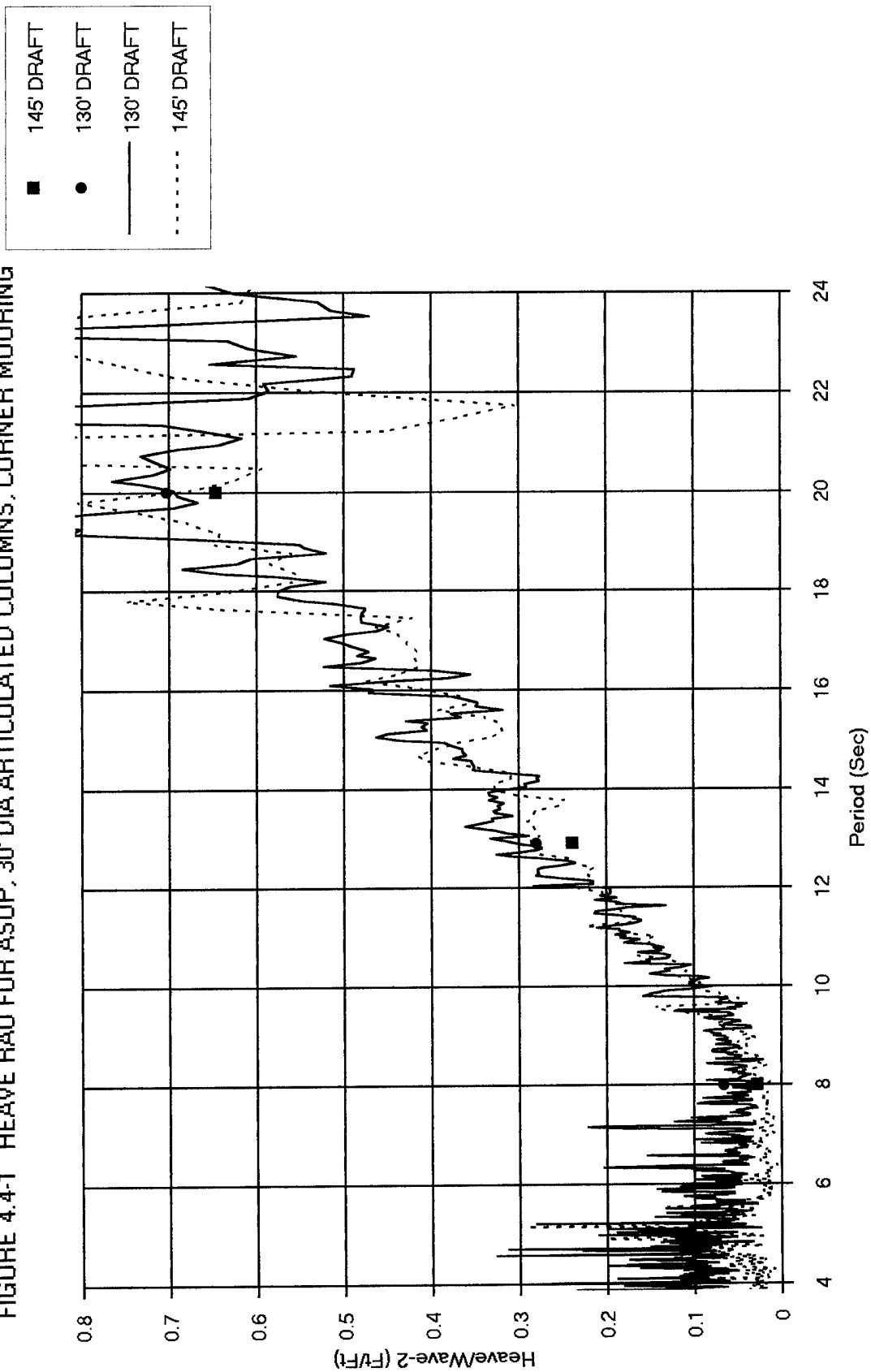


FIGURE 4.4-2 PITCH RAO FOR ASOP, 30' DIA ARTICULATED COLUMNS, CORNER MOORING

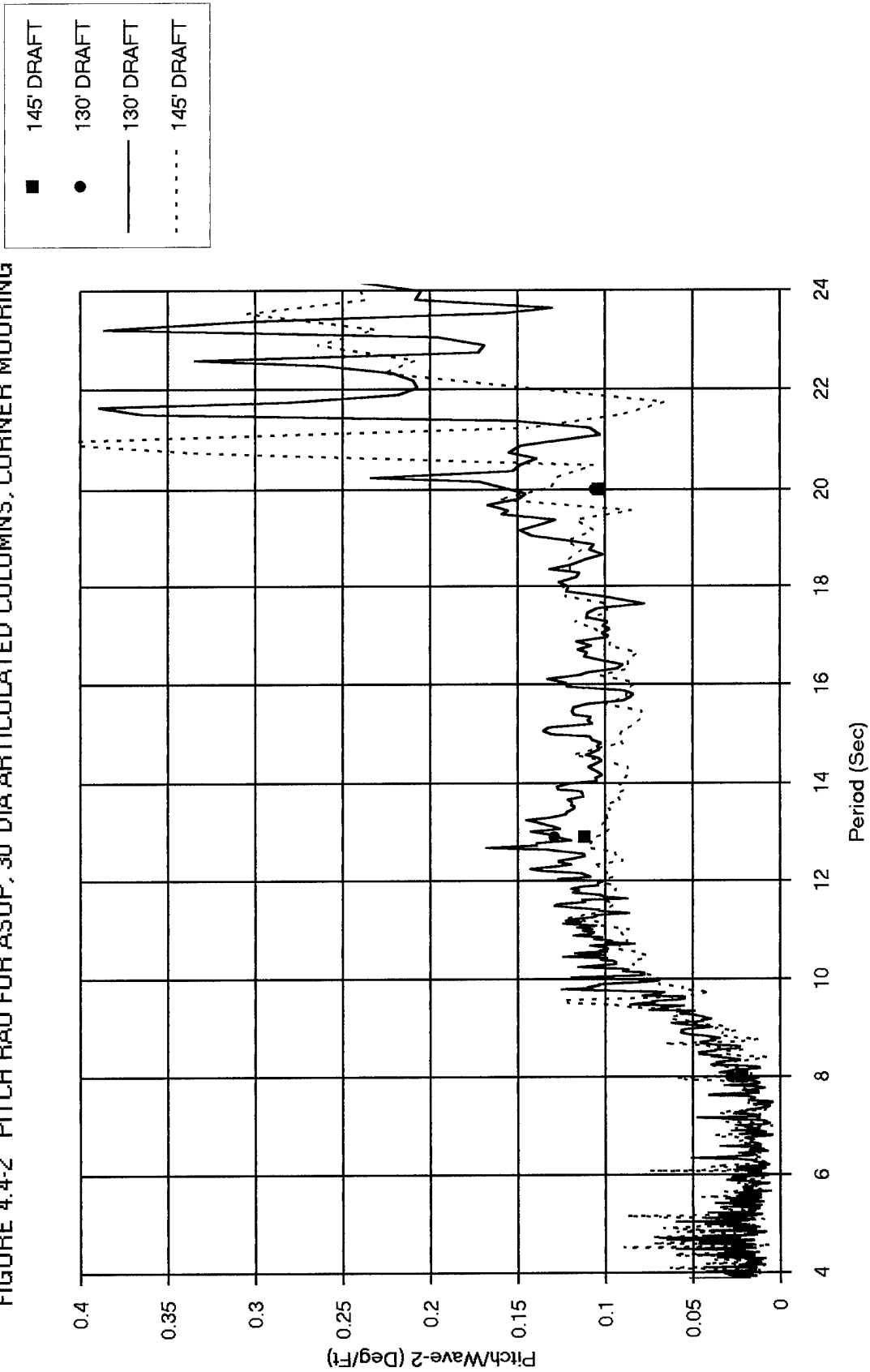


FIGURE 4.4-3 SURGE RAO FOR ASOP, 30' DIA ARTICULATED COLUMNS, CORNER MOORING

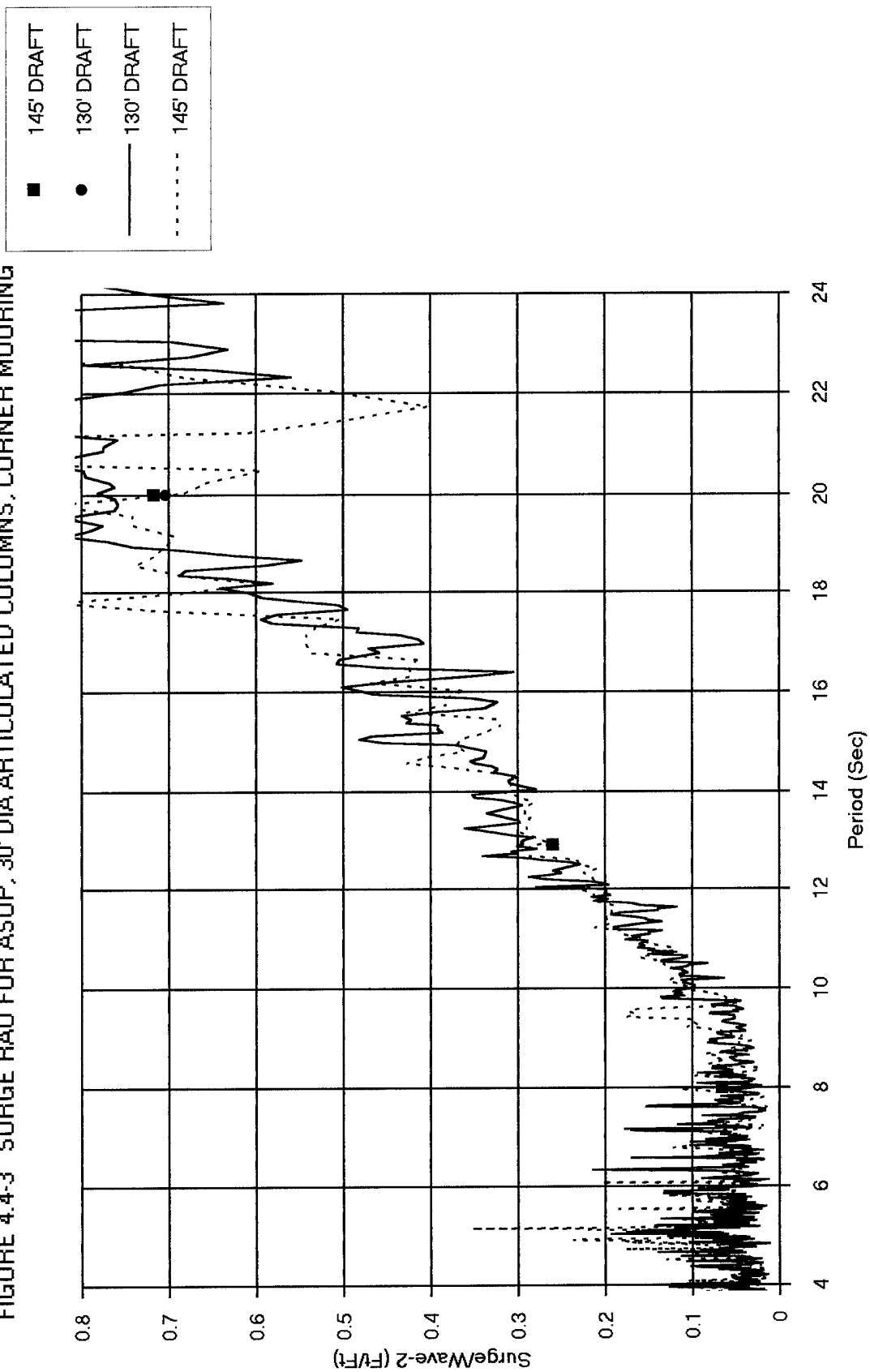


FIGURE 4.4-4 HEAVE RAD FOR ASOP, 145' DRAFT, 30' DIA COLUMNS

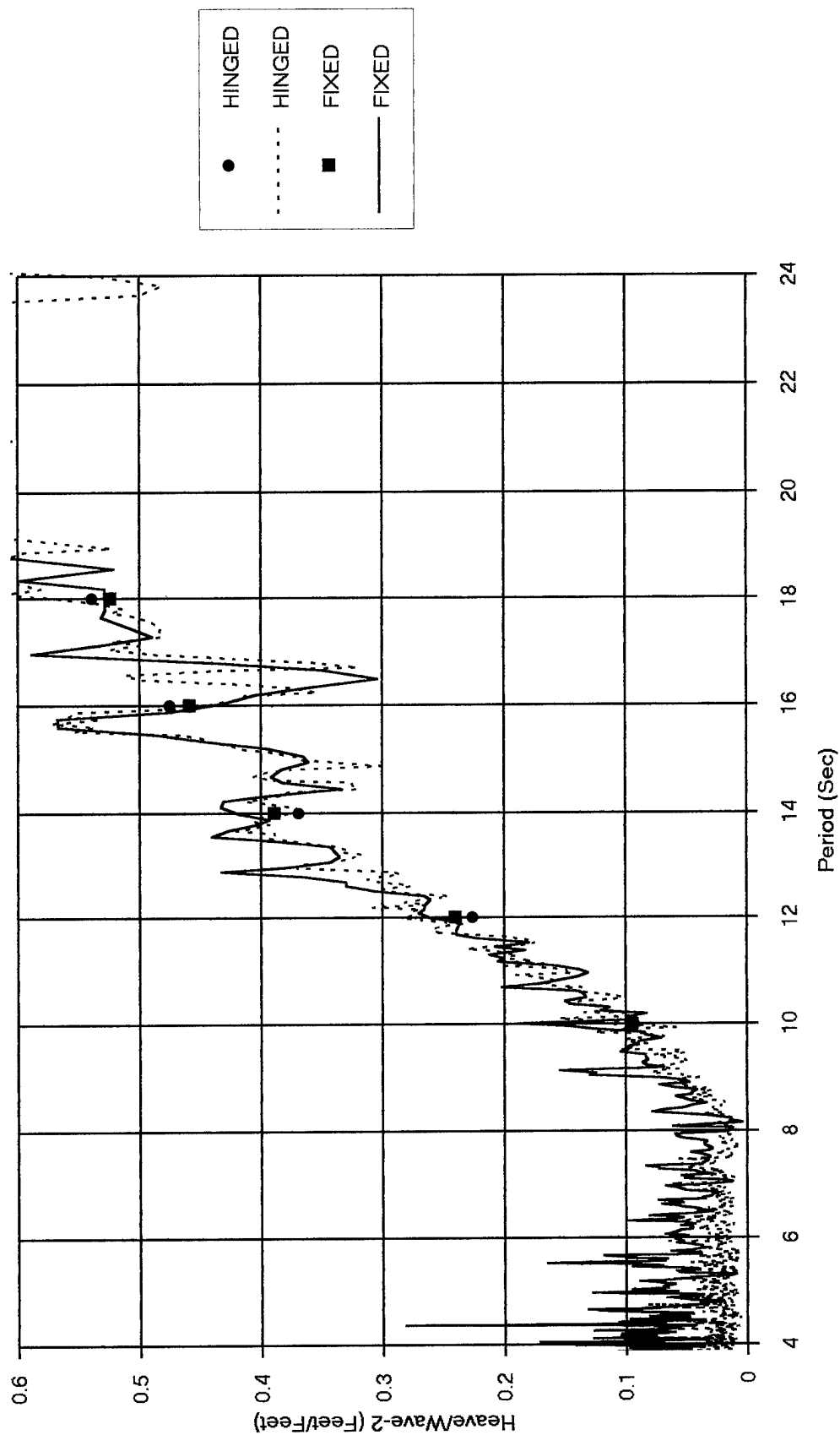


FIGURE 4.4-5 PITCH RAD FOR ASOP, 145' DRAFT, 30' DIA COLUMNS

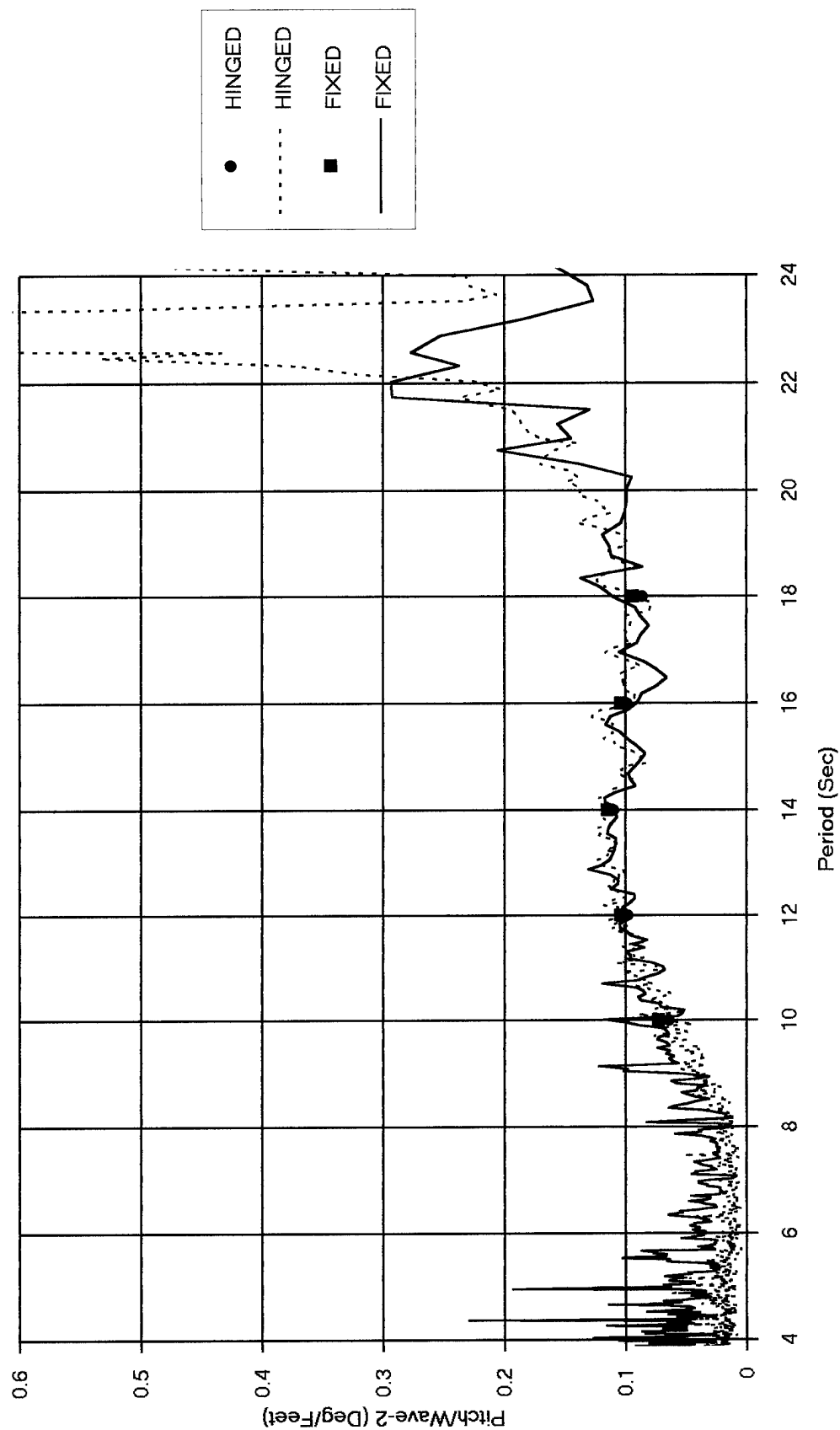


FIGURE 4.4-6 SURGE RAO FOR ASOP, 145' DRAFT, 30' DIA COLUMNS

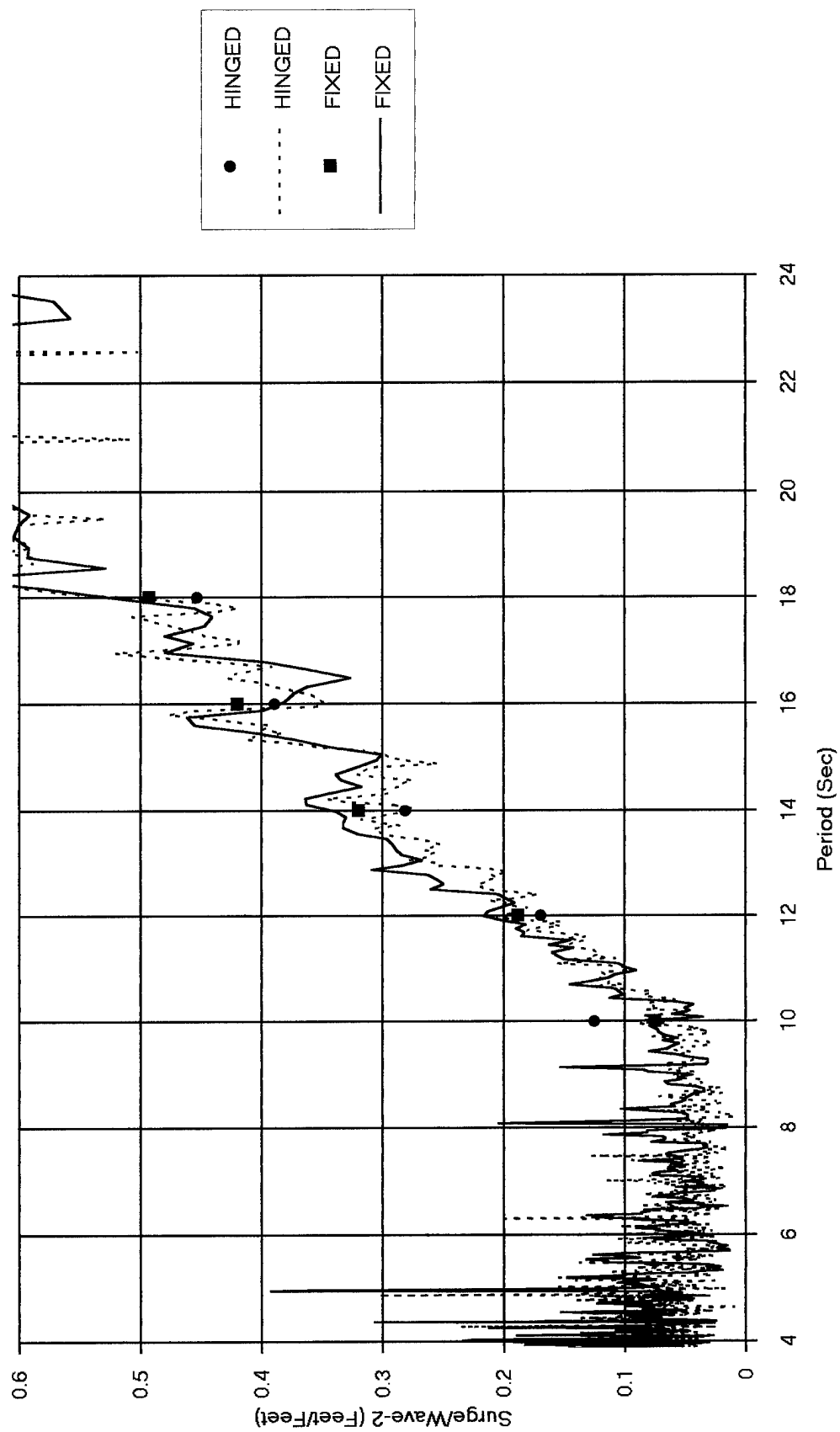


FIGURE 4.4-7 HEAVE RAD FOR ASOP, 145' DRAFT, 52.5' DIA COLUMNS

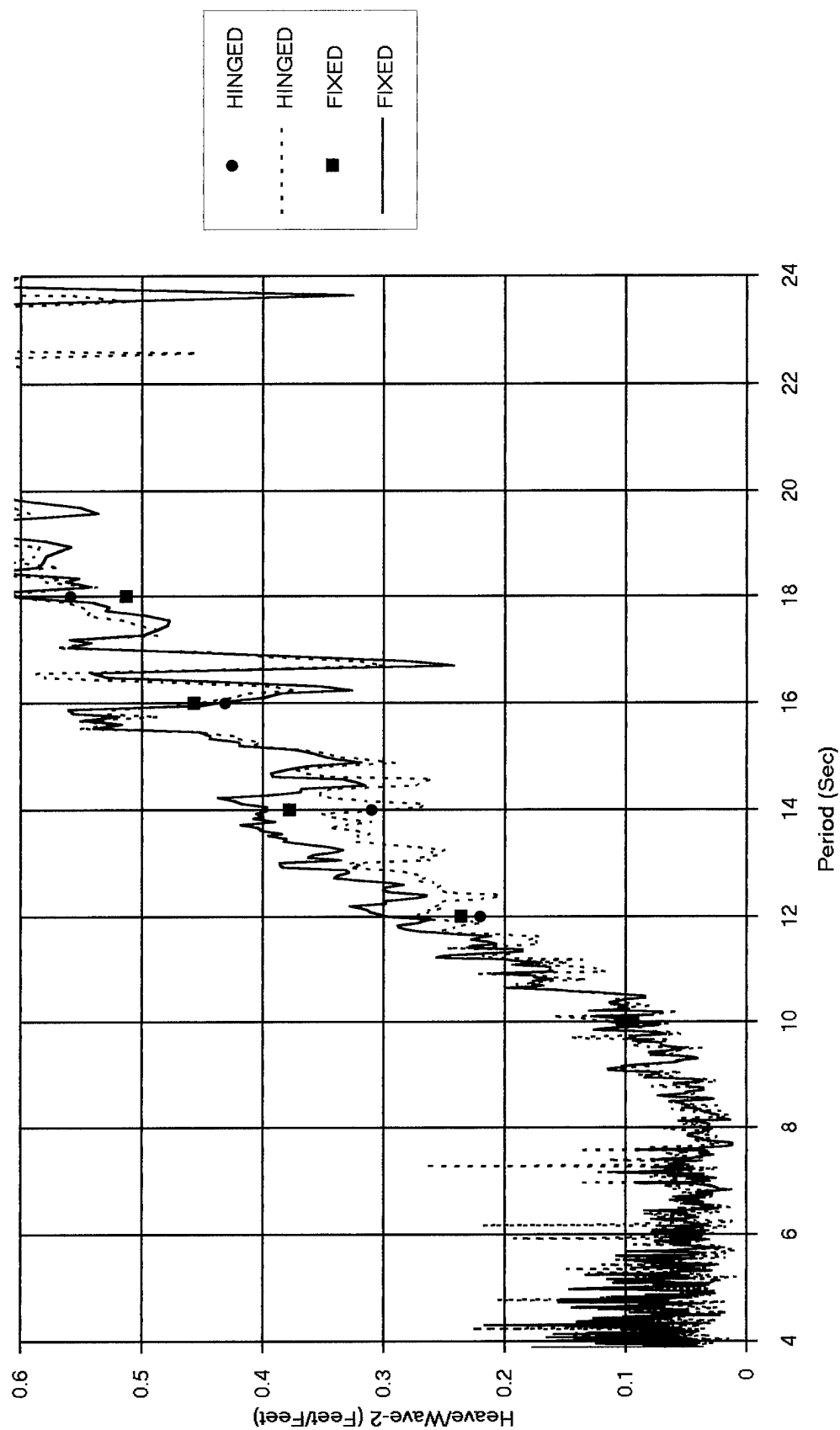


FIGURE 4.4-8 PITCH RAD FOR ASOP, 145' DRAFT, 52.5' DIA COLUMNS

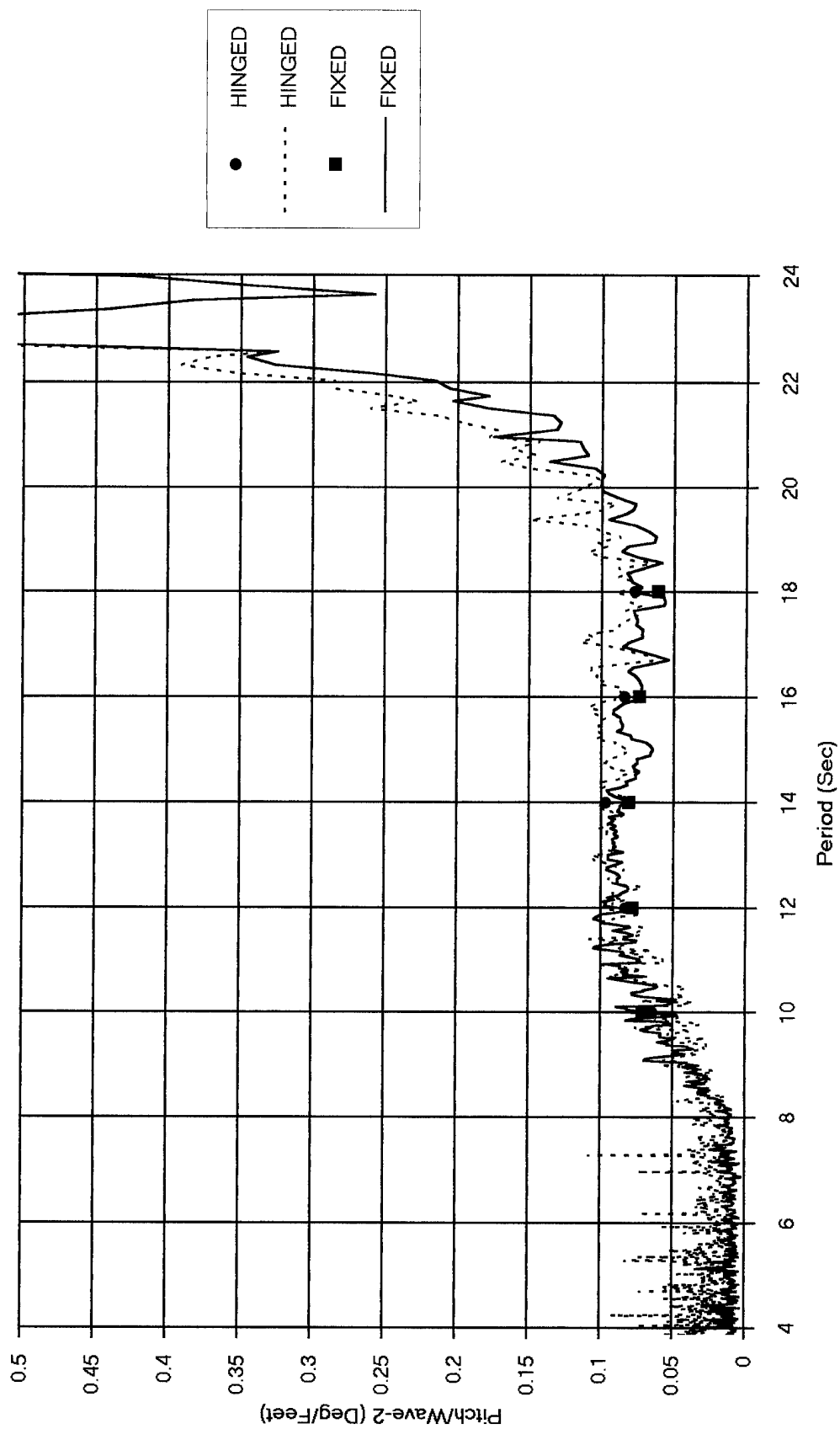




FIGURE 4.4-9 SURGE RAO FOR ASOP, 145' DRAFT, 52.5' DIA COLUMNS

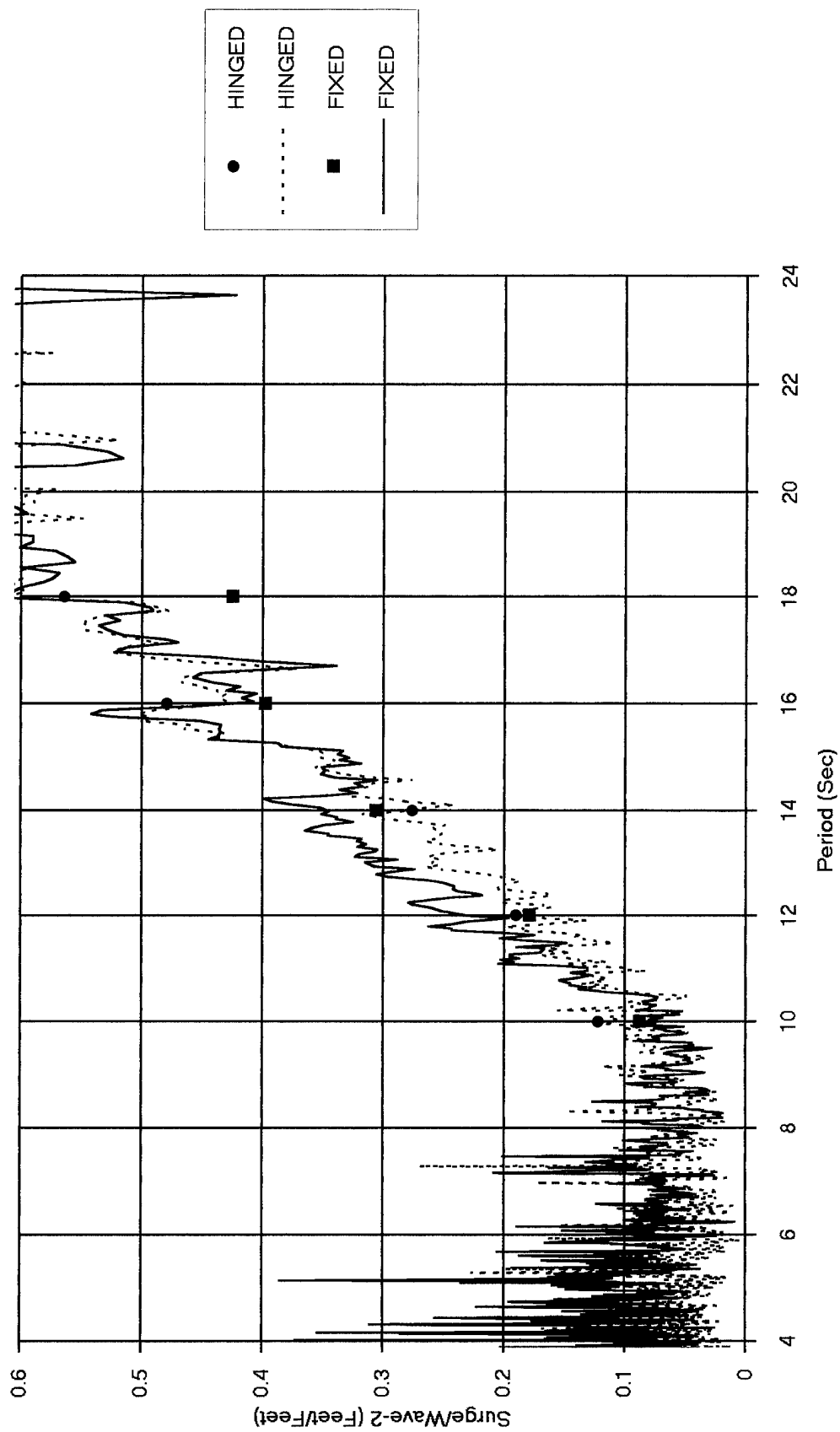


FIGURE 4.4-10 HEAVE RAO FOR ASOP, NO CENTER COLUMN, 39' BUOYS

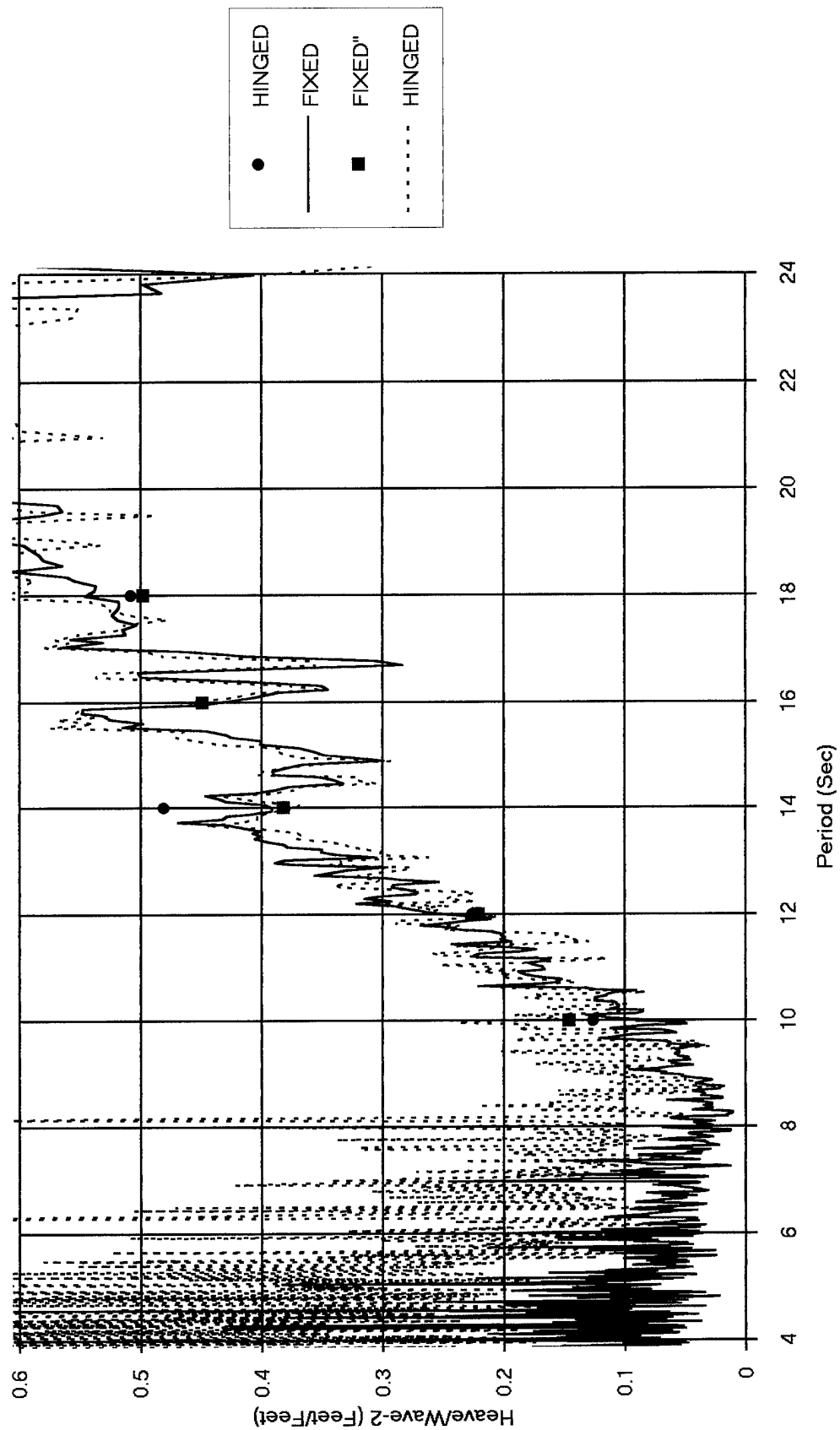


FIGURE 4.4-11 PITCH RAO FOR ASOP, NO CENTER COLUMN, 39' BUOYS

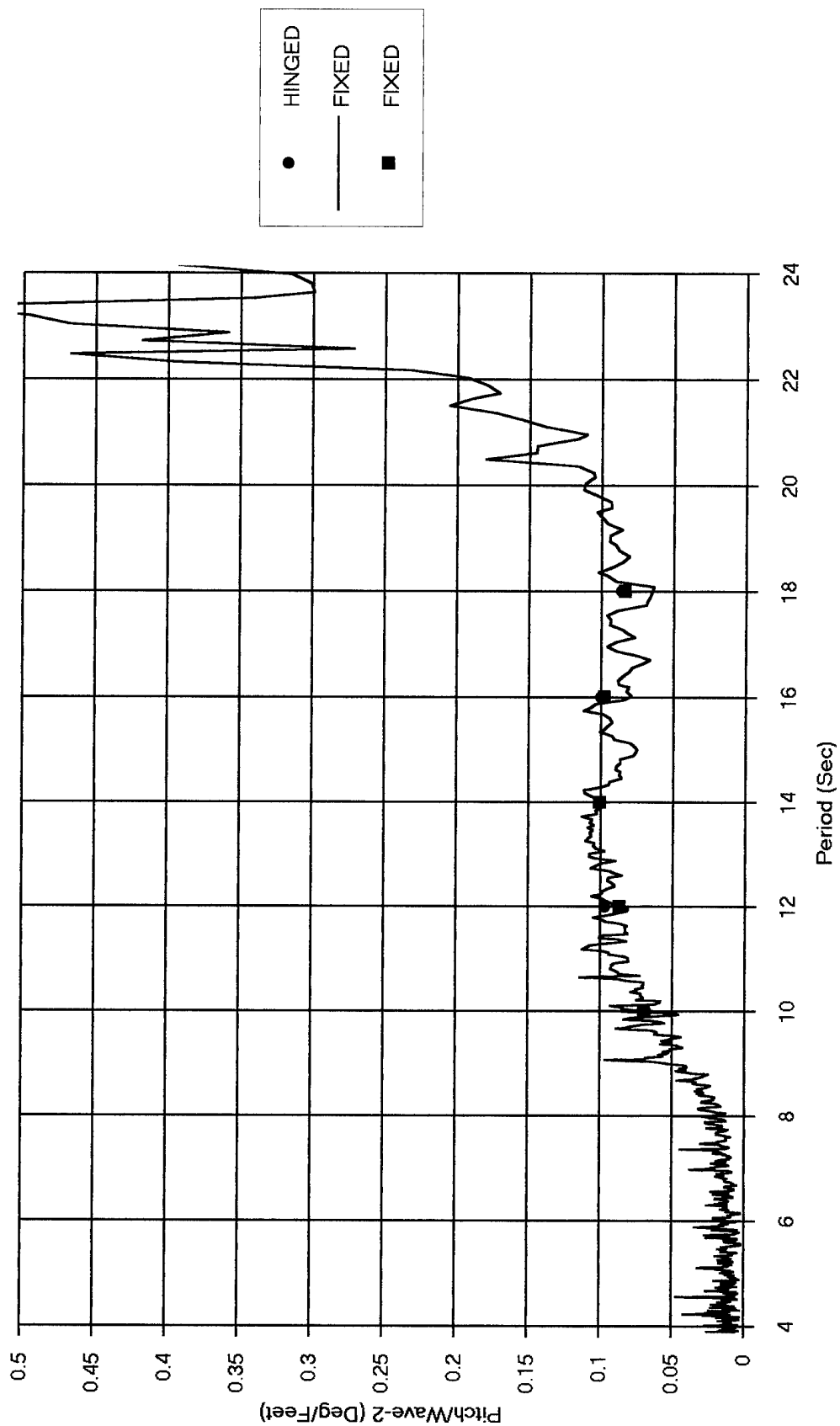


FIGURE 4.4-12 SURGE RAO FOR ASOP, NO CENTER COLUMN, 39' BUOYS

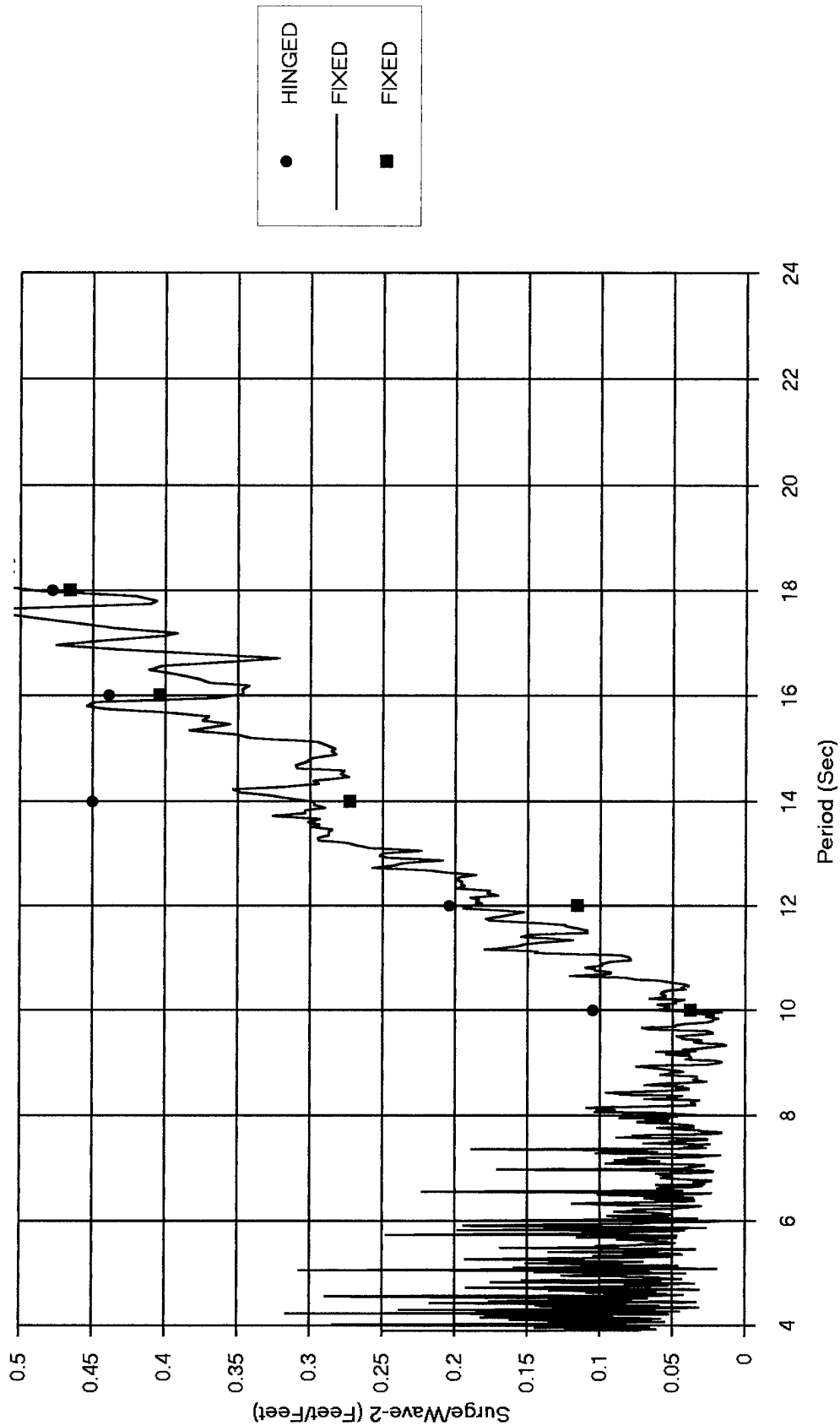


FIGURE 4.4-13 HEAVE RAO FOR ASOP, VARIOUS HINGED BUOYS, 145' DRAFT

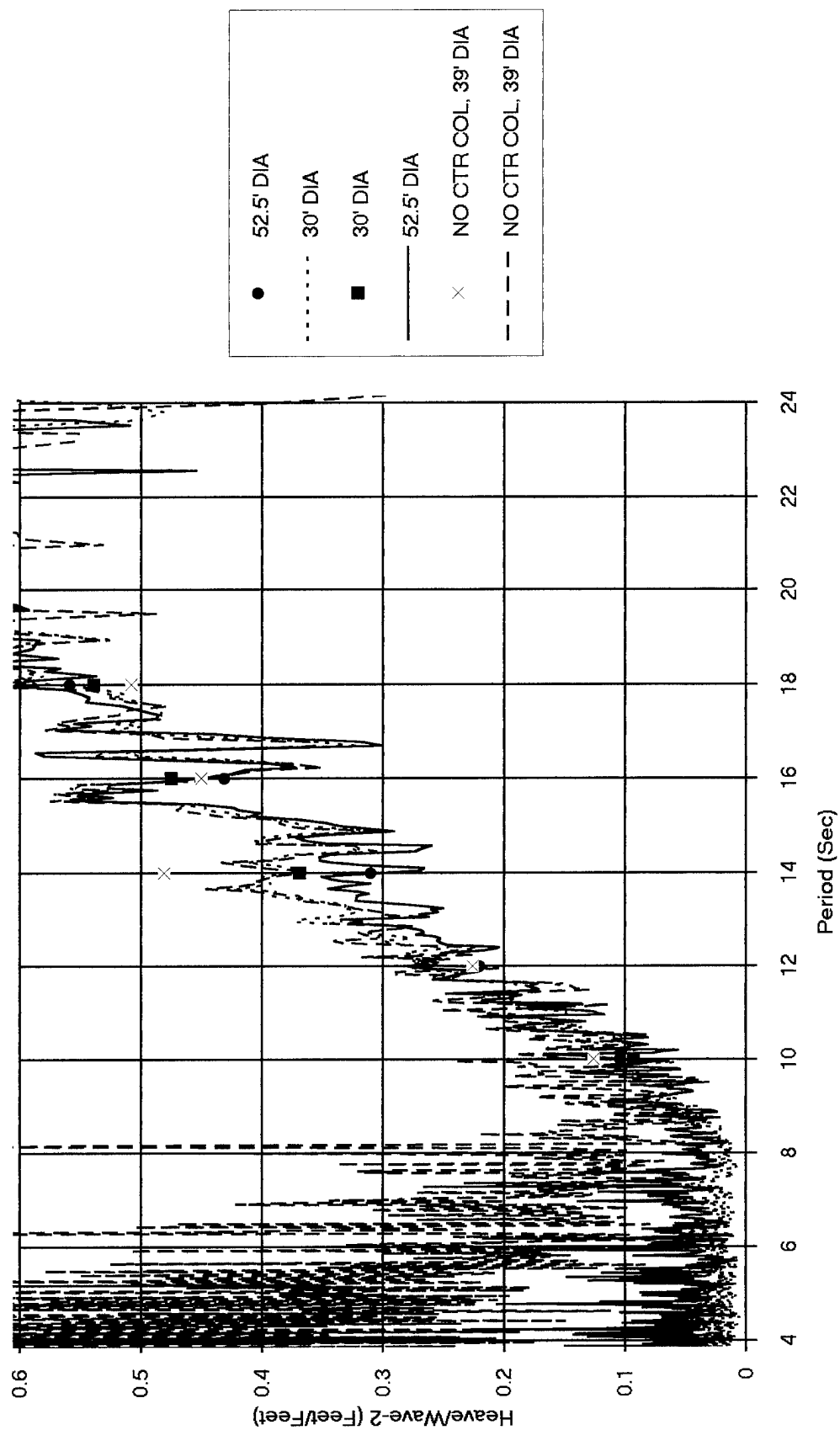


FIGURE 4.4-14 PITCH RAO FOR ASOP, VARIOUS HINGED BUOYS, 145' DRAFT

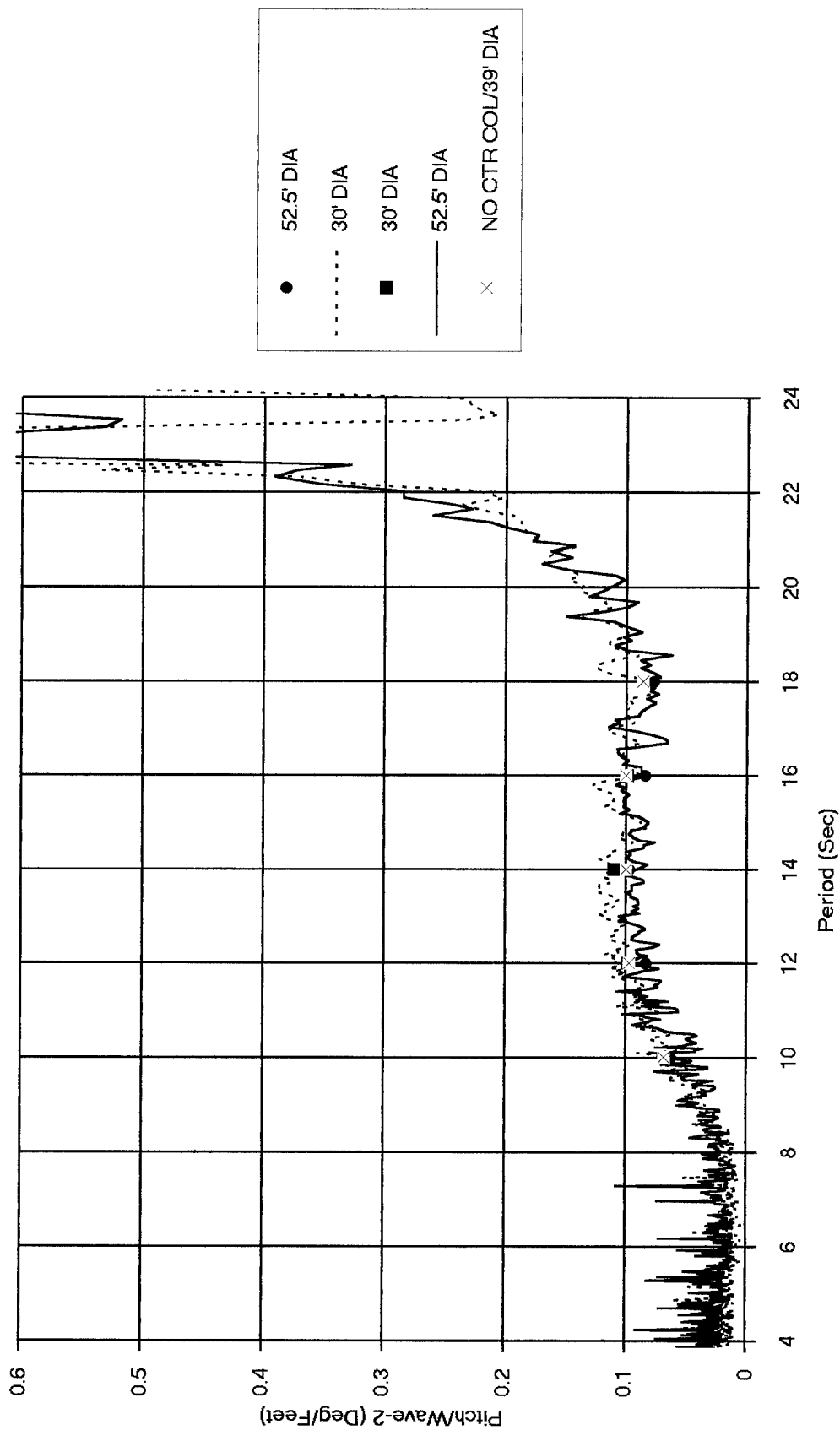


FIGURE 4.4-15 SURGE RAO FOR ASOP, VARIOUS HINGED BUOYS, 145' DRAFT

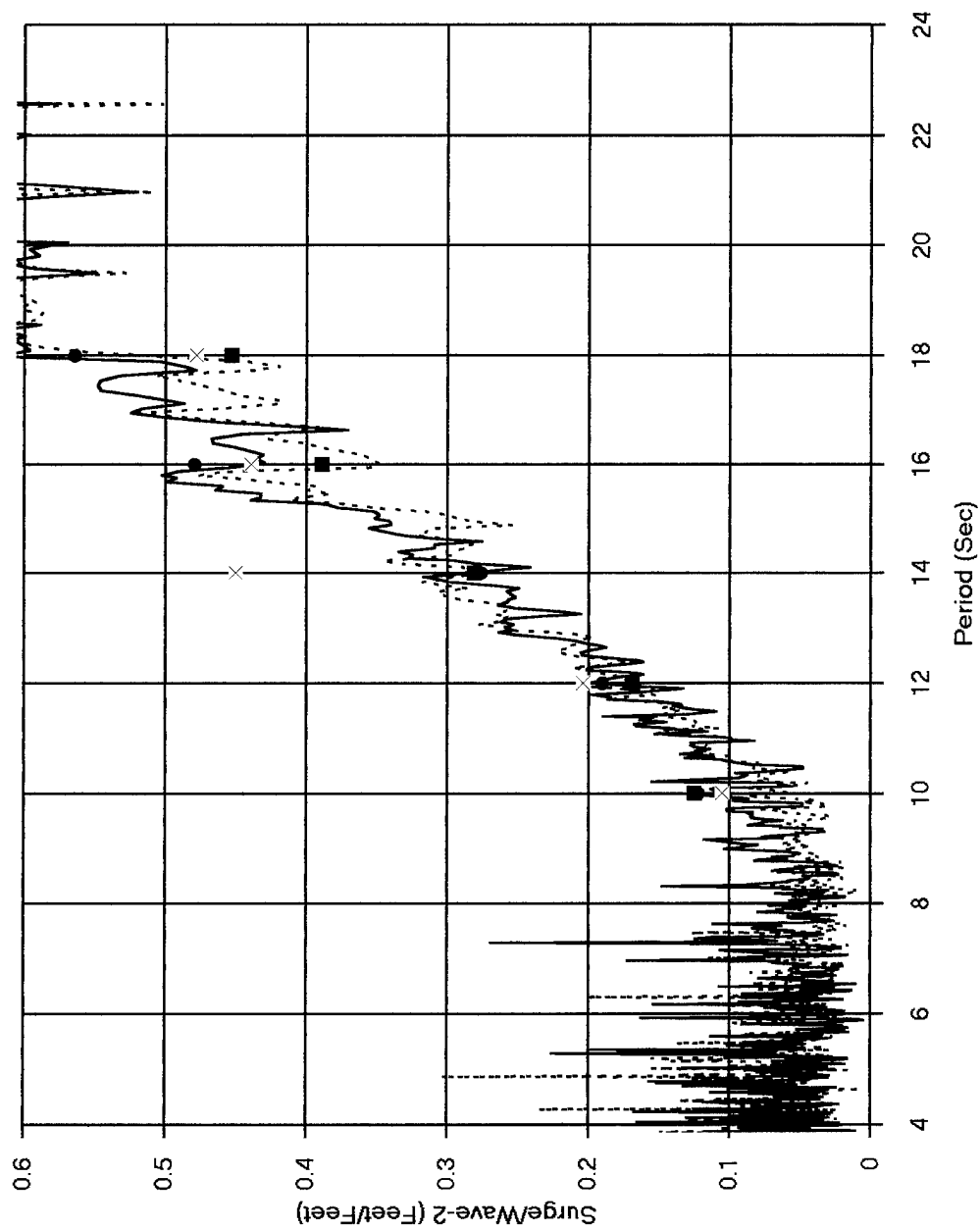


FIGURE 4.4-16 HEAVE RAO FOR ASOP, VARIOUS ARTICULATED BUOYS, 145' DRAFT

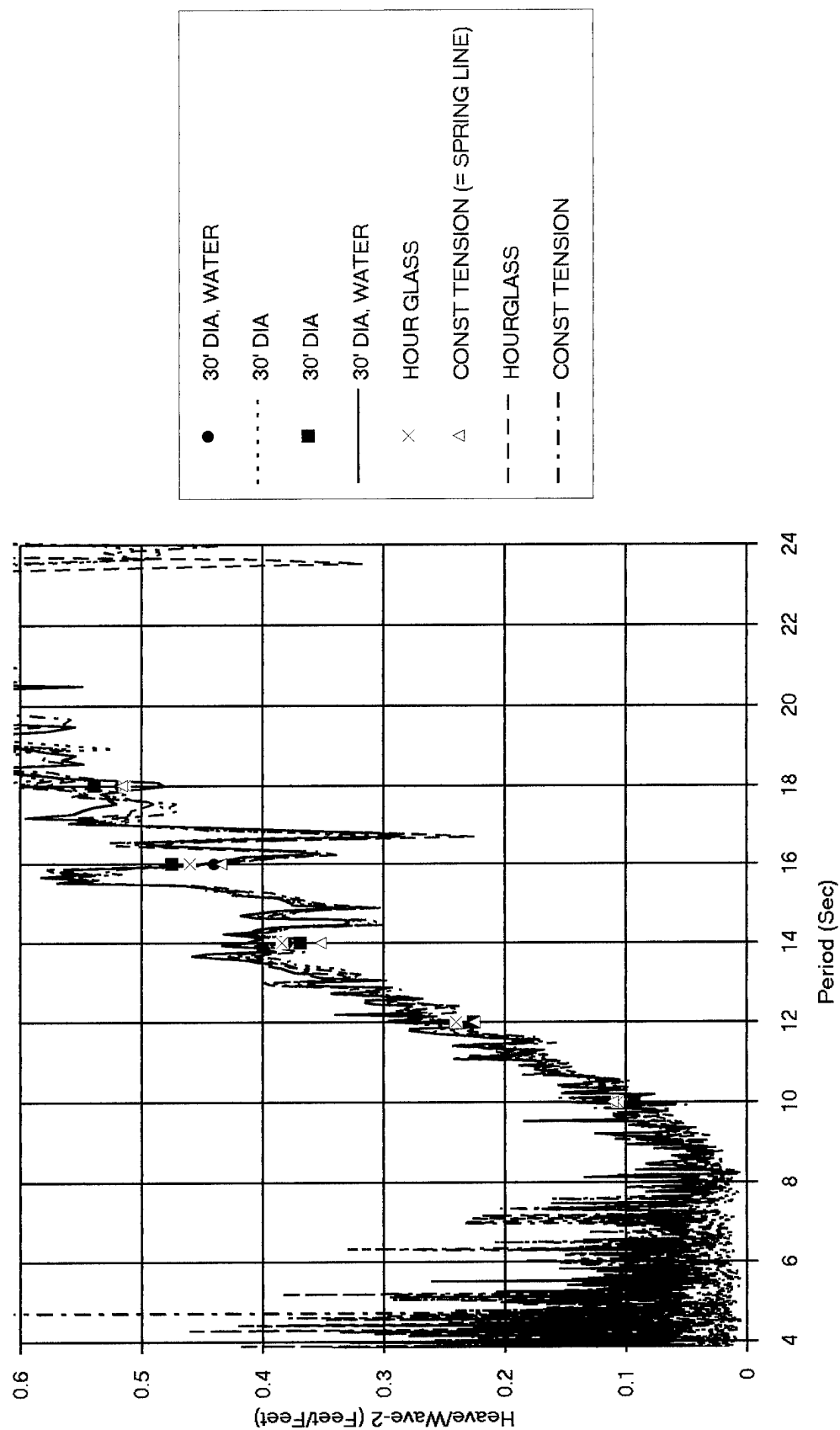




FIGURE 4.4-17 PITCH RAO FOR ASOP, VARIOUS ARTICULATED BUOYS, 145' DRAFT

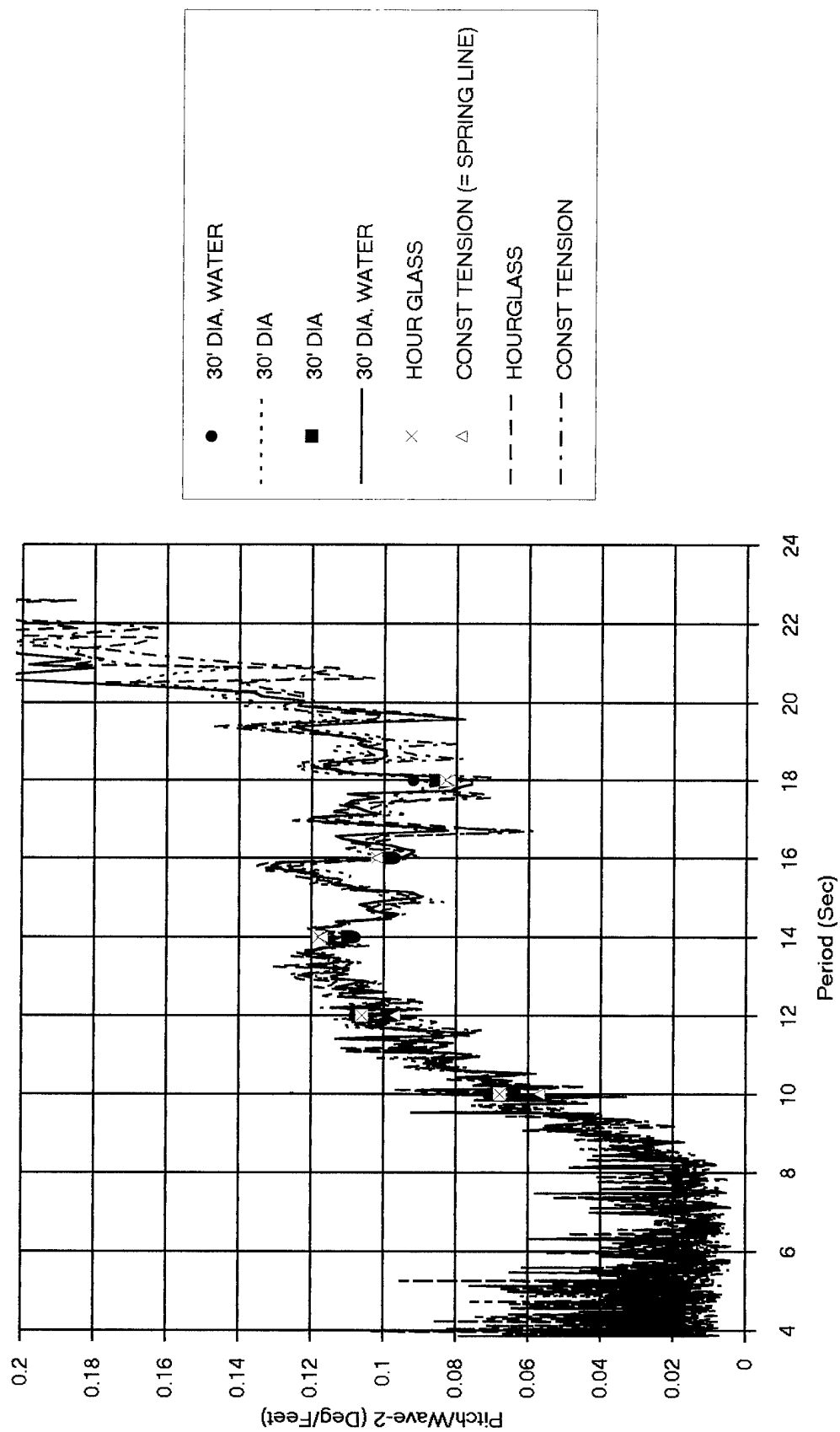
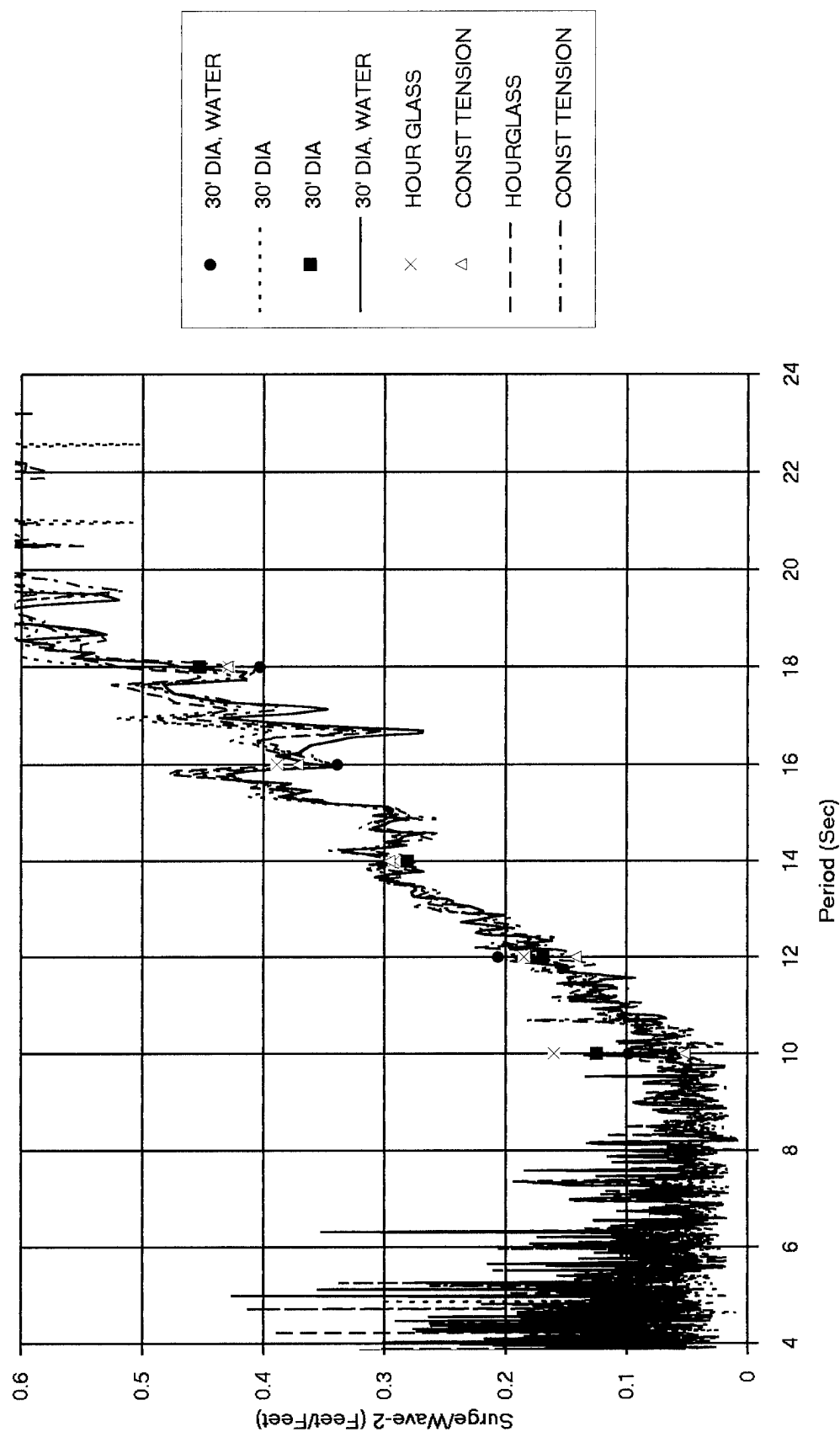


FIGURE 4.4-18 SURGE RAO FOR ASOP, VARIOUS ARTICULATED BUOYS, 145' DRAFT



## APPENDIX A

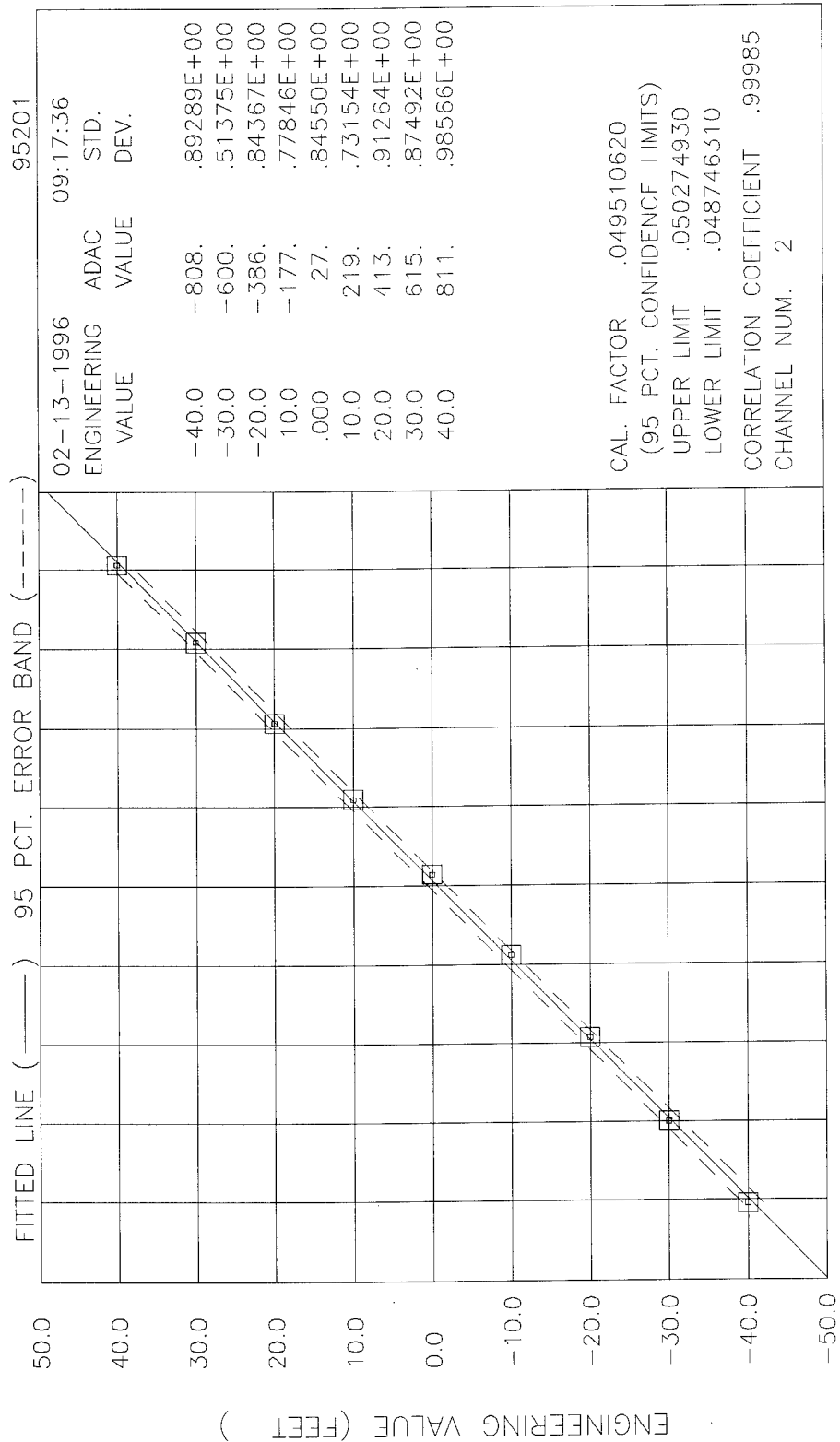
## VIDEO LOG

VIDEO TAPE NR.	TEST NR.	VIDEO TIME	VIDEO TAPE NR.	TEST NR.	VIDEO TIME	VIDEO TAPE NR.	TEST NR.	VIDEO TIME
I-1	111	00		421	0:12:57		A564	1:48:44
	112	0:00:19		422	0:20:49		A551	1:52:20
	113	0:00:53		423	0:28:46		A552	1:54:27
	211	0:01:00		423A	0:32:14		A553	1:56:44
	212	0:01:57		521	0:05:07		A554	1:59:10
	213	0:02:16		522	0:06:43		A555	2:01:42
	221	0:04:14		523	0:09:11	II-2	A556B	00
	222	0:11:56		524	0:10:51		A557	0:8:36
	223	0:19:36		525	0:12:34		A568	0:17:01
	111	0:32:52		526	0:14:30		A569	0:23:30
	112	0:34:06		527	0:22:02		A570	0:27:03
	113	0:35:30		530			A571	0:30:17
	121	0:37:25		531			A580	0:32:17
	122	0:45:45		532			A581	0:34:22
	123	0:54:31		533			A582	0:36:52
	130	1:02:23		534	0:39:13		A583	0:39:13
	131	1:06:41		535	0:40:53		A584	0:41:26
	132	1:11:59		536	0:43:00		A585	0:43:42
	133	1:14:35		537	0:47:45		A586	0:45:57
	311	1:16:56		538	0:52:40		A587	0:54:30
	312	1:17:40		539	0:54:33		A590	1:01:48
	313	1:19:04		540	0:59:17		A591	1:03:55
	321	1:20:19		541	1:03:20		A592	1:07:51
	322	1:29:55		542	1:05:44		A593	1:11:26
	323	1:38:08		543	1:08:57		A594	1:13:43
	330	1:46:25		544	1:11:14		A595	1:16:03
	351	1:48:17		545	1:13:28		A596	1:18:26
	352	1:49:10		546	1:14:50		A597	1:20:43
	353	1:50:04		547	1:20:30		A598	1:23:04
	361	1:50:53		A556	1:24:56		A599	1:31:42
	362	1:58:42		A559	1:33:19		A600	1:40:21
I-2	363	0:09:04		A560	1:34:46		A601	1:42:26
	411	0:09:06		A561	1:37:00		A602	1:44:21
	412	0:09:51		A562	1:39:20		A603	1:46:27
	413	0:11:03		A563	1:42:56		A604	1:48:49

VIDEO TAPE NR.	TEST NR.	VIDEO TIME	VIDEO TAPE NR.	TEST NR.	VIDEO TIME
II-2	A605	1:51:04		A1005	0:04:05
	A606	1:53:14		A1006	0:06:36
	A607	1:55:34		A1007	0:08:27
	A608	1:57:53		A1008	0:10:38
II-3	A609	00		A1009	0:19:24
	A708	0:09:03		A1100	0:28:50
	A709	0:17:35		A1101	
	A700	0:29:13		A1102	0:6:54
	A701	0:34:25		A1103	0:13:24
	A702	0:38:35		A1104	0:16:09
	A703	0:40:56		A1105	0:18:42
	A704	0:43:20		A1106	0:21:24
	A705	0:45:37		A1107	0:24:30
	A706	0:47:48		A1108	0:26:53
	A707	0:50:08		A1109	0:35:29
	A800			A1203	0:43:56
	A801			A1204	0:45:10
	A802			A1205	0:46:30
	A803	0:56:58		A1206	0:47:44
	A804	0:59:14		A1207	0:49:00
	A805	1:01:39		A1208	0:51:00
	A806	1:03:52		A1209	0:54:56
	A807	1:06:02		A1300	1:00:01
	A808	1:08:25			
	A809	1:16:47			
	A900	1:25:11			
	A901				
	A902				
	A903	1:25:11			
	A904	1:27:43			
	A905	1:30:09			
	A906	1:32:31			
	A907	1:34:55			
	A908	1:37:47			
	A909	1:46:21			
	A1000	1:55:51			
	A1001	1:58:17			
	A1002	2:00:11			
II-4	A1003	00			
	A1004	0:01:40			

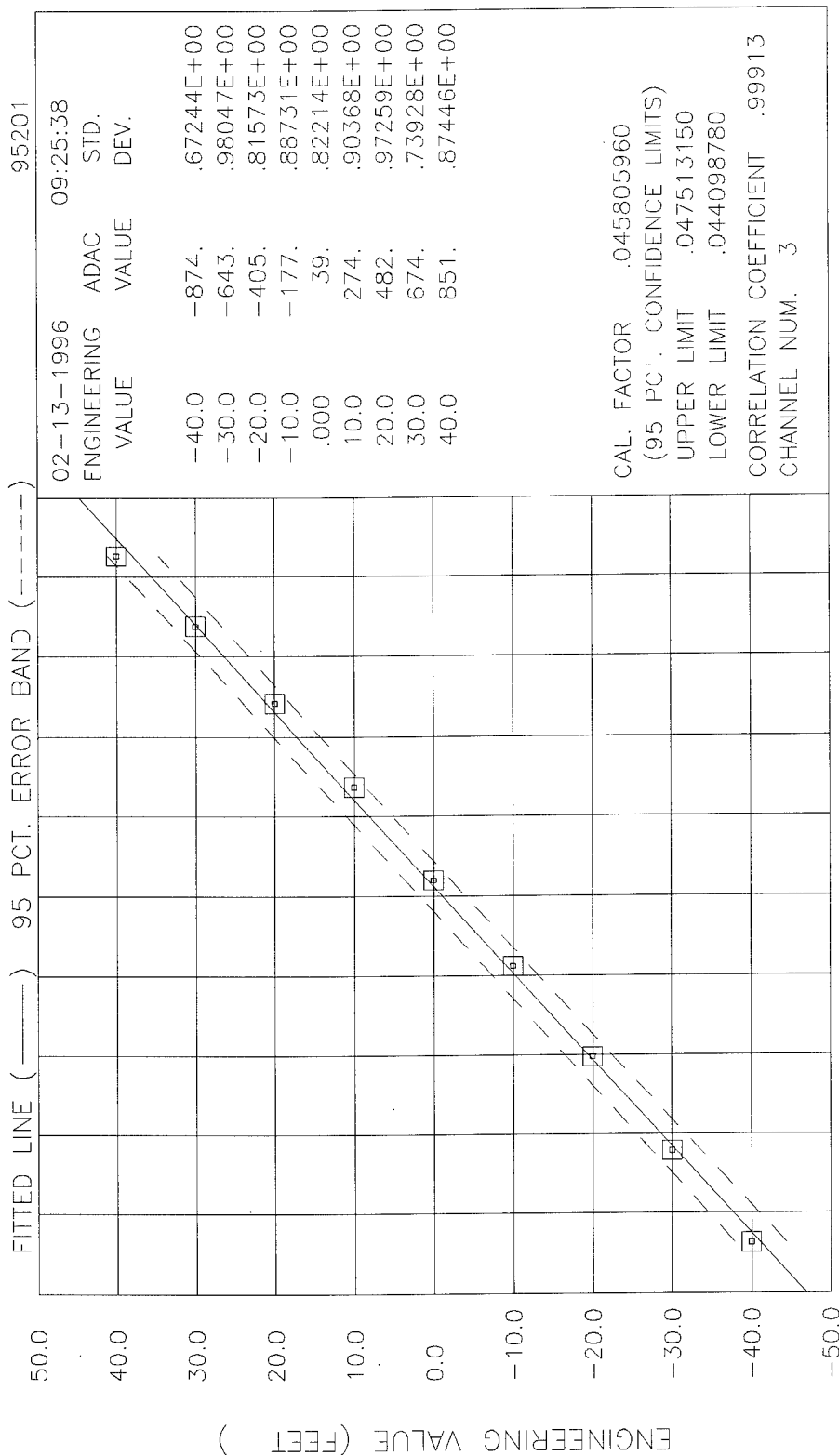
## **APPENDIX B**

### **INSTRUMENTATION CALIBRATION PLOTS**



10.140 Fe/VOLT

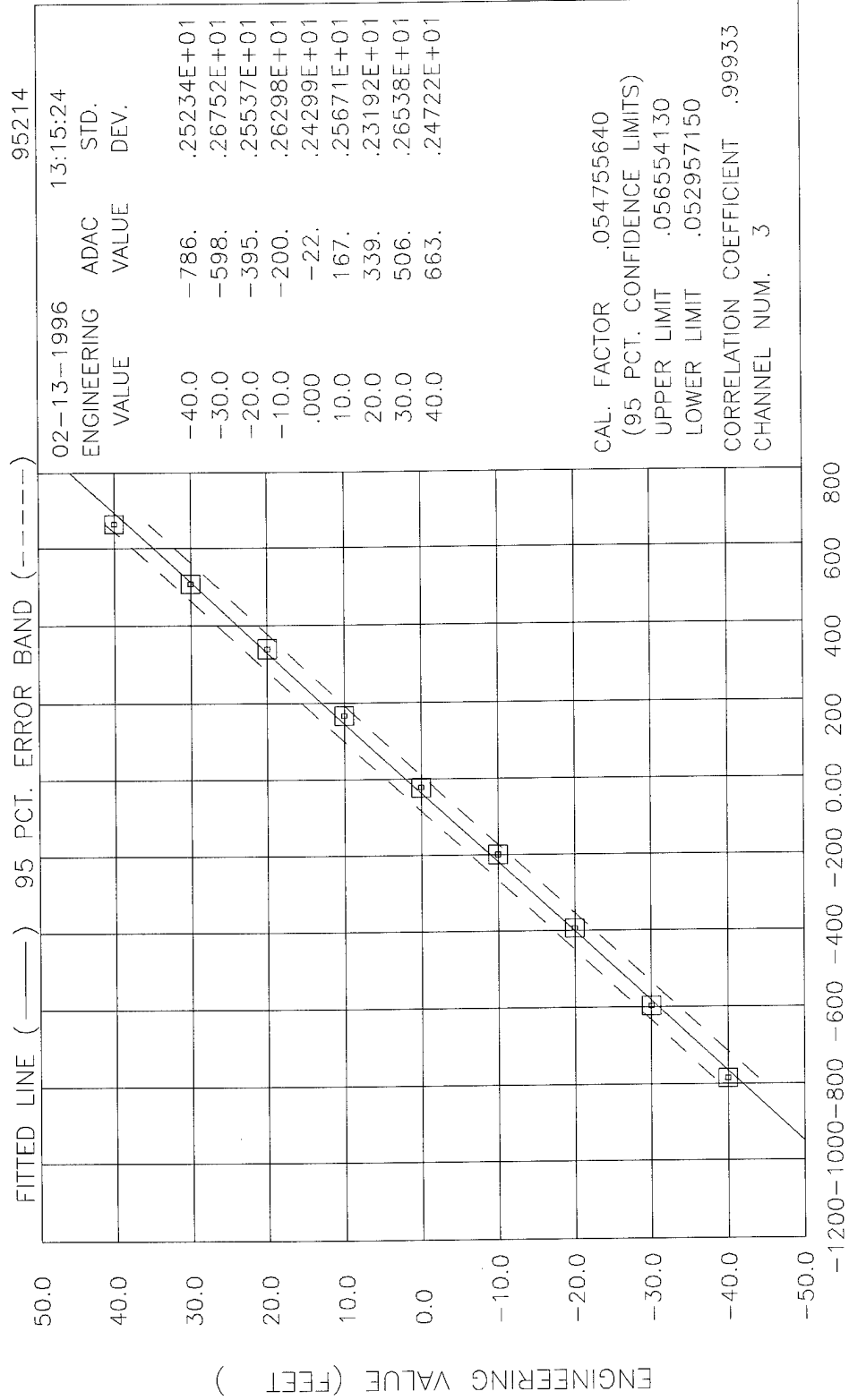
A/D VALUE (ADACS)  
 PLOT AND TABLE OF CALIBRATION POINTS FOR WAVE=1



A/D VALUE (ADACS)

PLOT AND TABLE OF CALIBRATION POINTS FOR WAVE-2

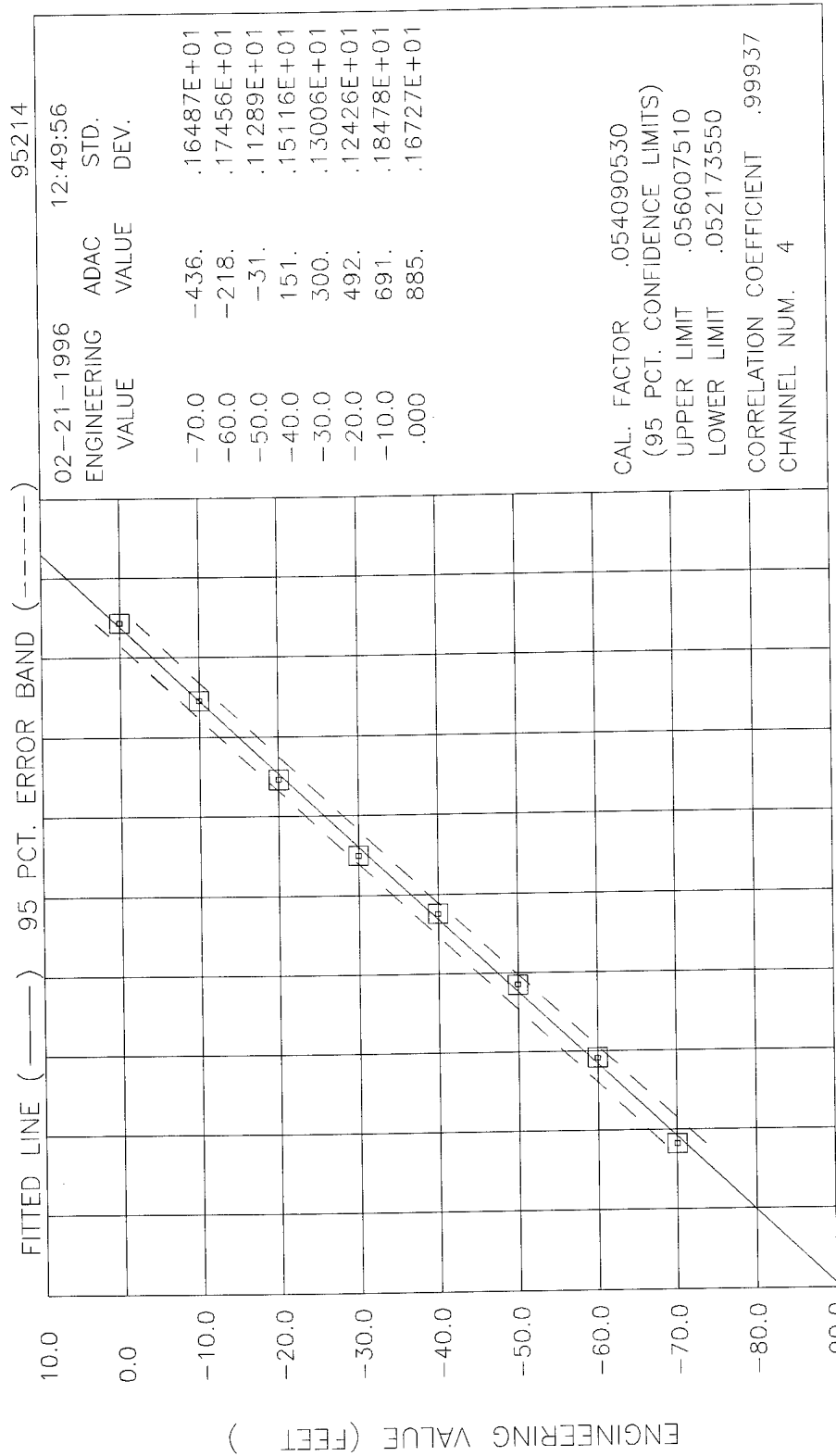
9.3811 FT/VOLT



PLOT AND TABLE OF CALIBRATION POINTS FOR WAVE-2

11.2.14 Fe/Volt

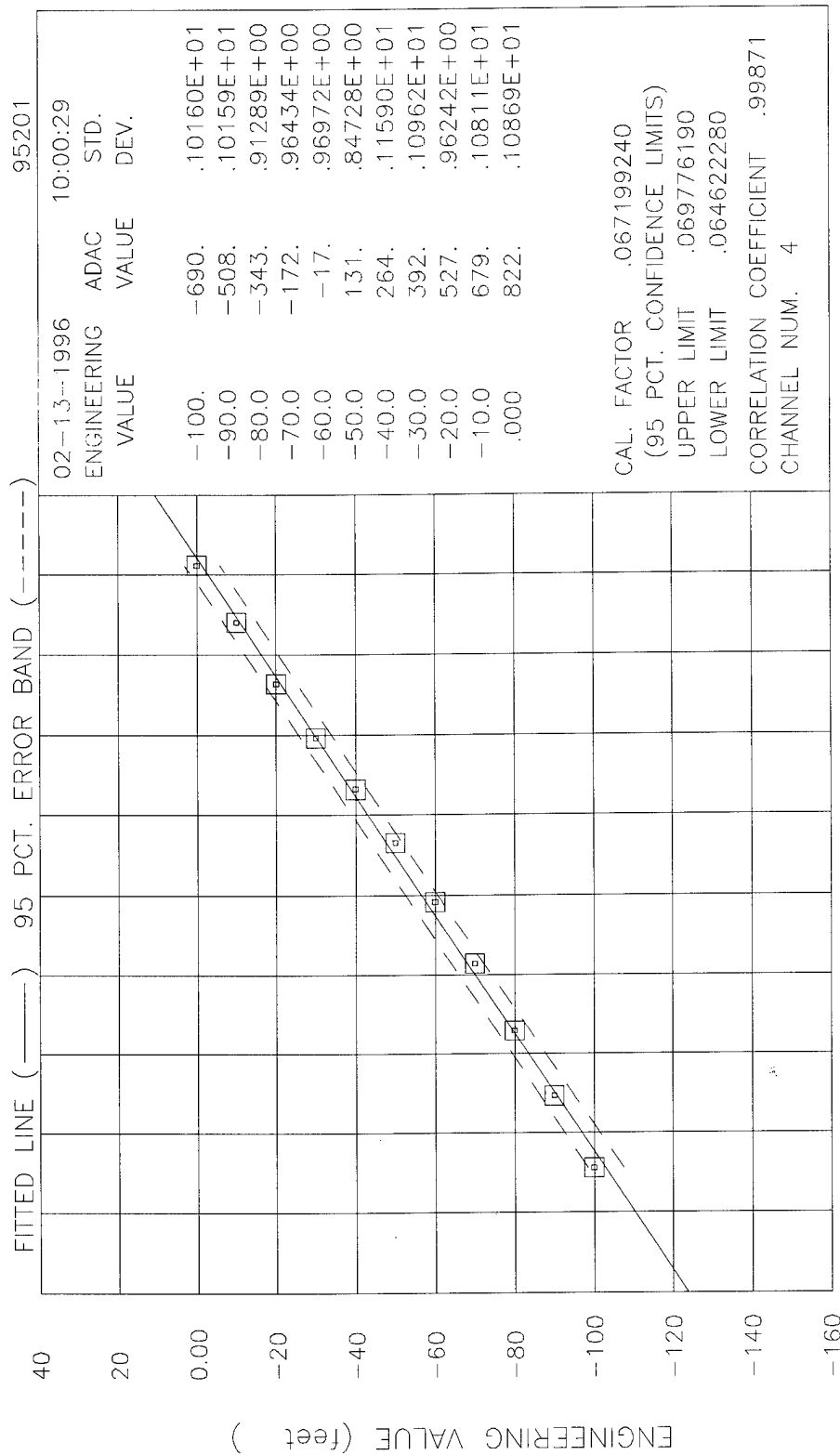




A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR AIRGAP

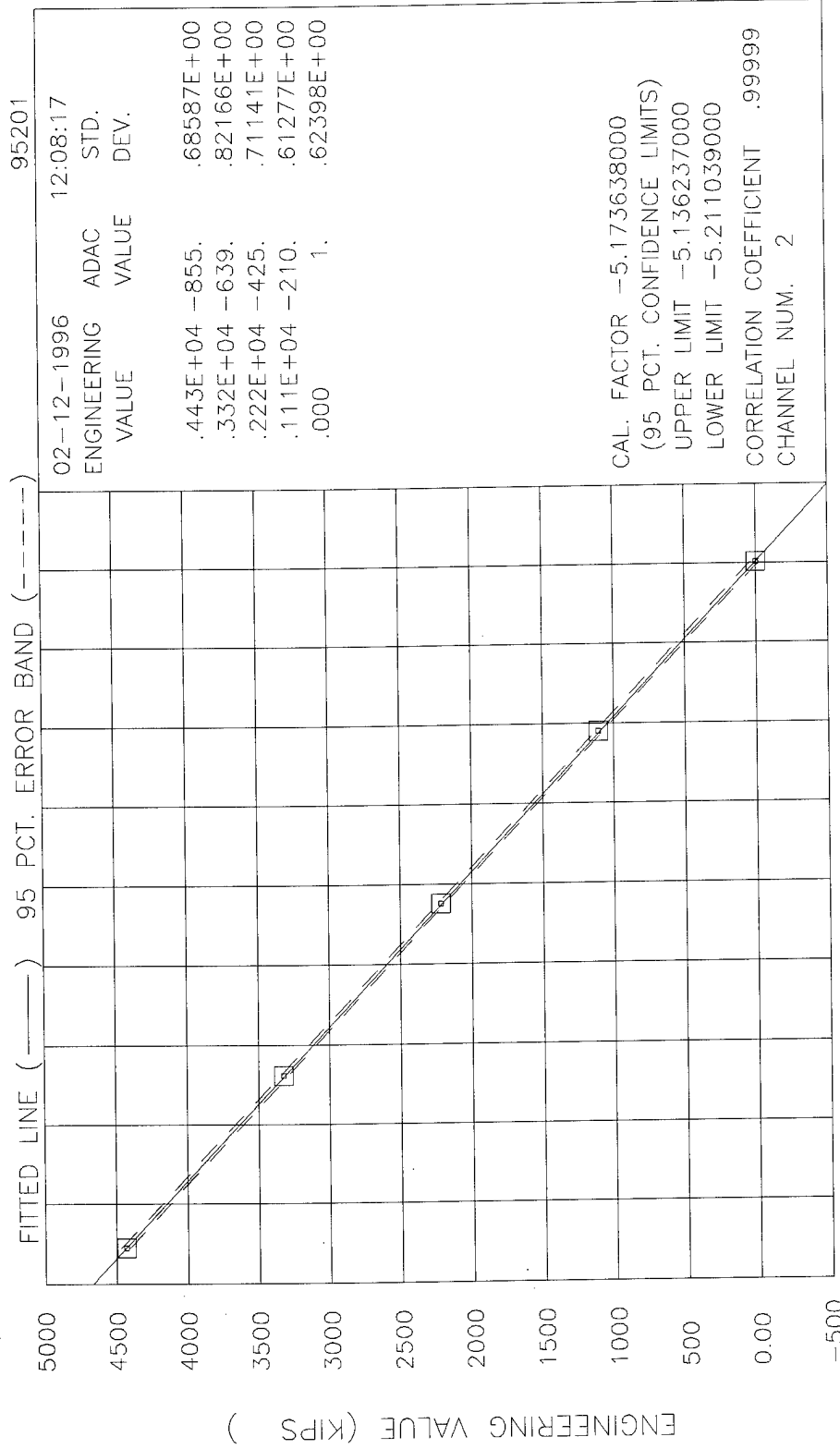
11.078 Fe/A

NEW



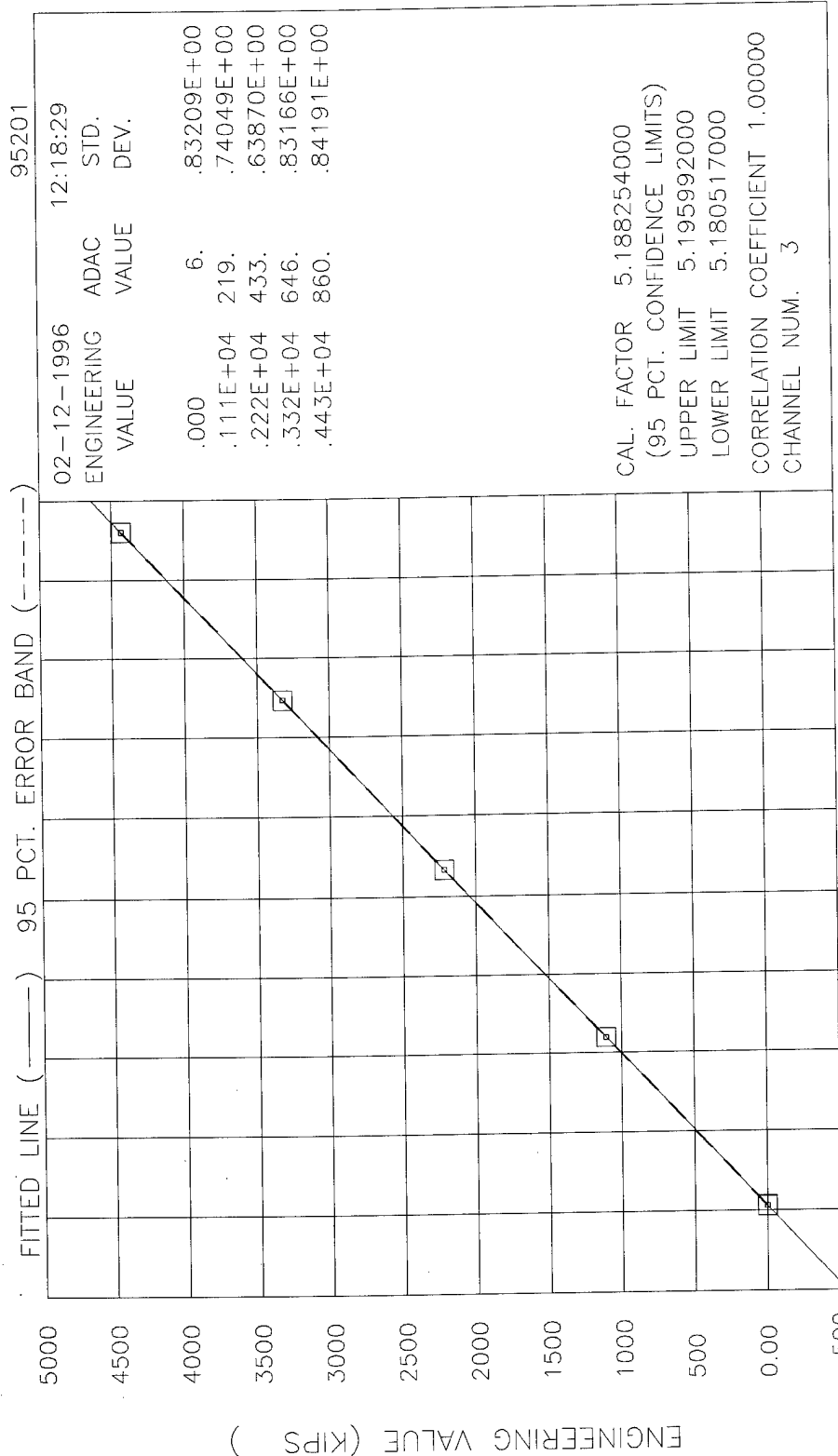
13.762 Ft/V

REPLACED 2-21-96



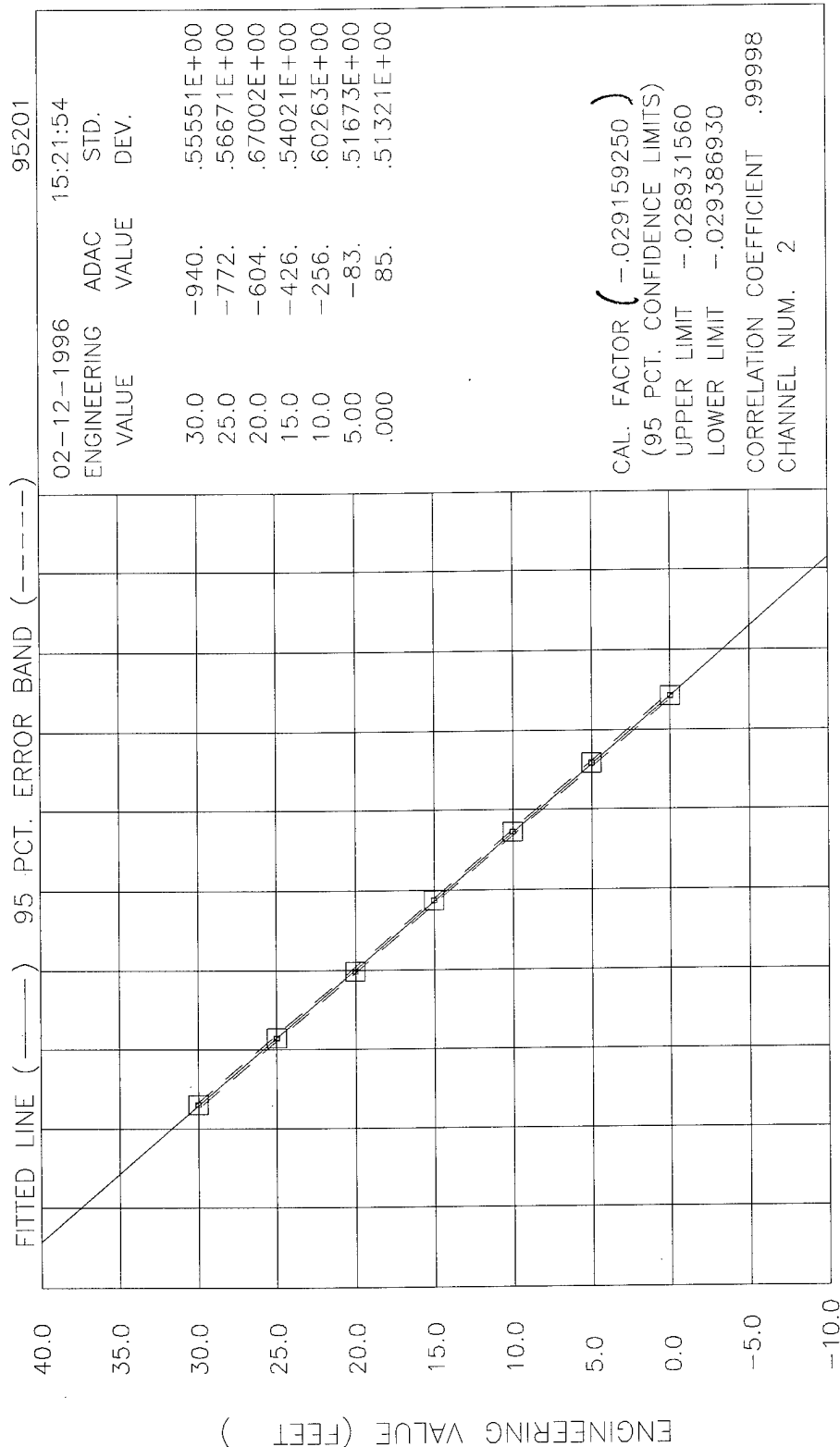
PLOT AND TABLE OF CALIBRATION POINTS FOR BT-1

-1659.6 Kips/Volt



1062.55 Kips/VOLT

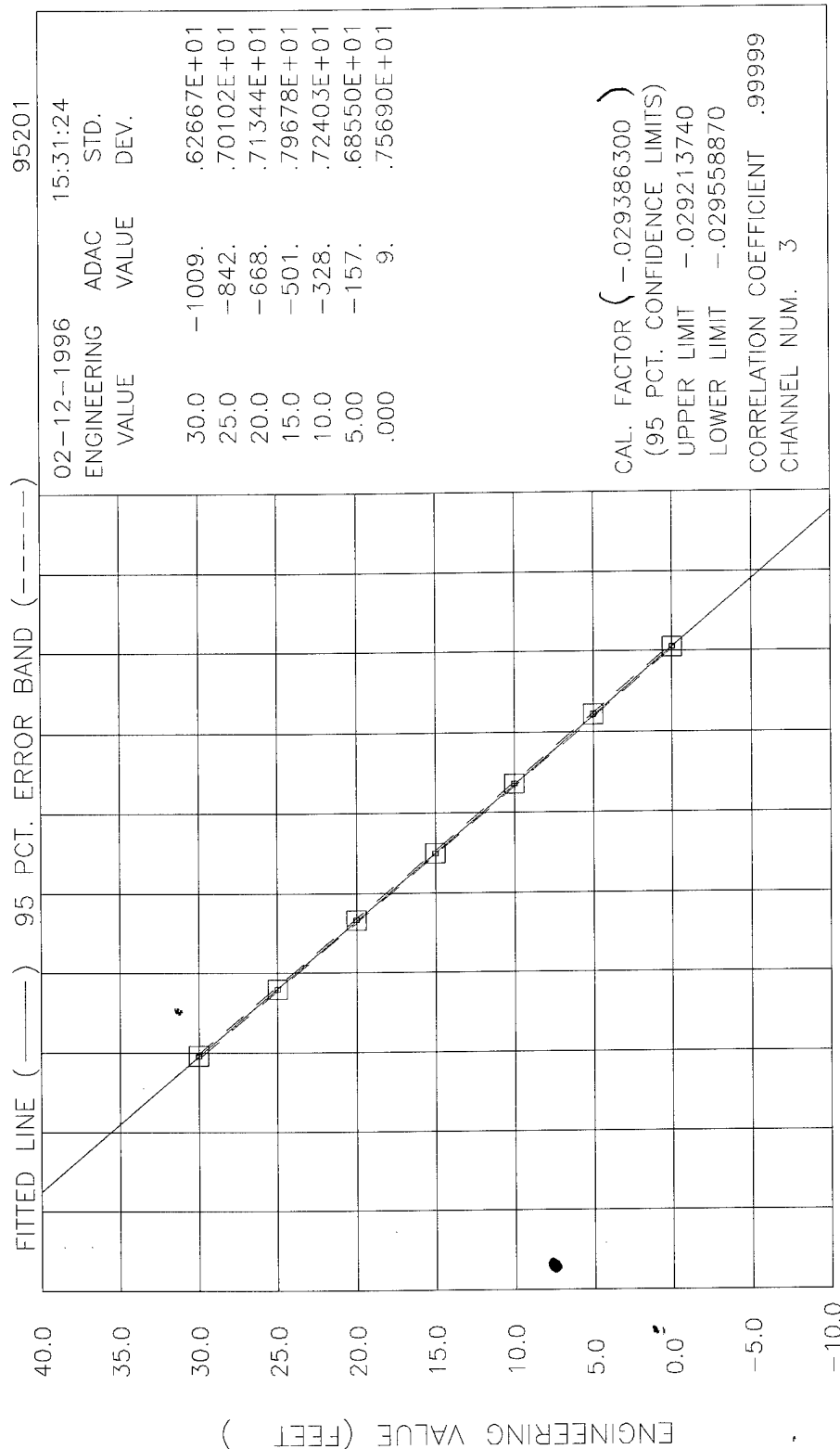
PLOT AND TABLE OF CALIBRATION POINTS FOR BT-2



$$\begin{aligned}
 & (= -5.972 \text{ FT/V (Spectrum Line)}) \\
 & = -5.383 \text{ FT/V (Fish Line)}
 \end{aligned}$$

$$\begin{array}{r}
 3.155 \\
 \times 3.50 \\
 \hline
 \end{array}$$

PLOT AND TABLE OF CALIBRATION POINTS FOR BEX-1



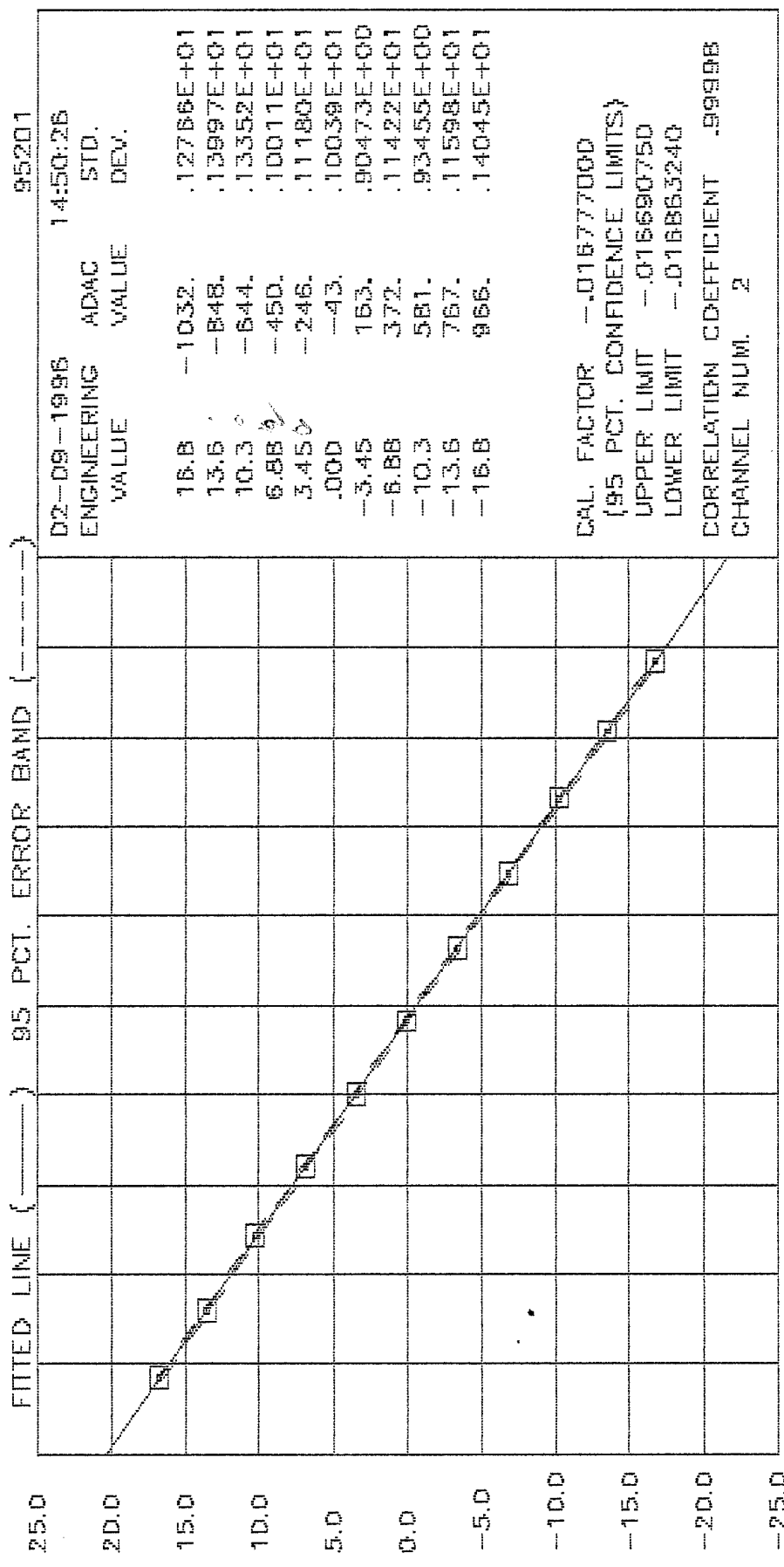
A/D VALUE (ADACS)

PLOT AND TABLE OF CALIBRATION POINTS FOR BEX-2

$$\begin{array}{r} \times 3.155 \\ \hline 3.50 \end{array}$$

$$\begin{aligned} &= -6.018 \text{ FT/VOLT (SPECTRUM LINE)} \\ &= -5.425 \text{ FT/V (FISH LINE)} \end{aligned}$$

2048 ADACS = 10V  
 $\frac{2048 \text{ ADACS}}{10V} = -3.4 \frac{V}{V}$



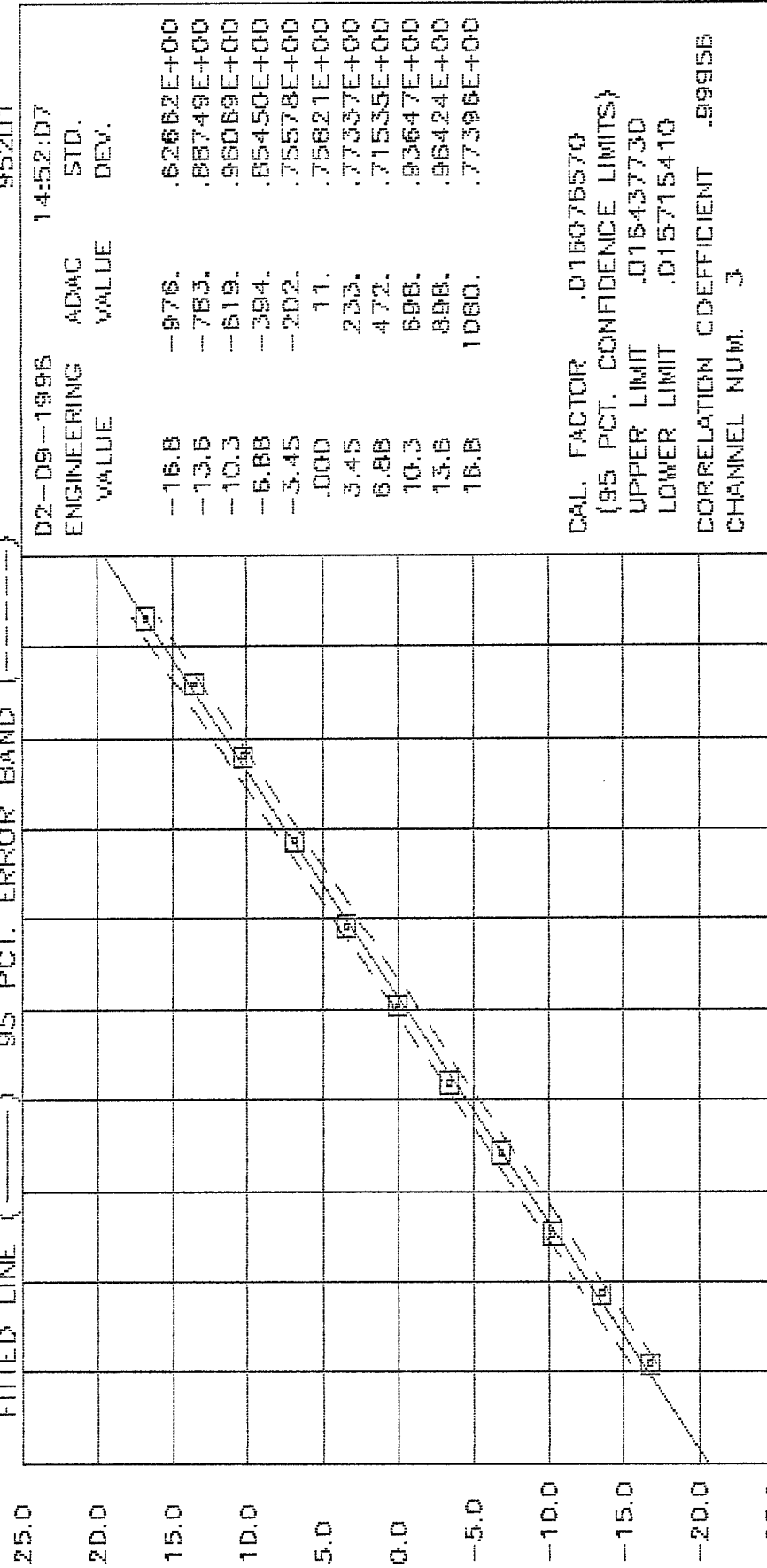
A/D VALUE (ADACS)

PLOT AND TABLE OF CALIBRATION POINTS FOR SURANG

- 3.436 DEG/VOLT

FITTED LINE (—) 95 PCT. ERROR BAND (---)

95201



D2-D9-1996

14:52:17

STD. DEV.

ADAC VALUE

ENGINEERING VALUE

ADAC VALUE

CAL. FACTOR .016076570

{95 PCT. CONFIDENCE LIMITS}

UPPER LIMIT .016437730

LOWER LIMIT .015715410

CORRELATION COEFFICIENT .99956

CHANNEL NUM. 3

-1250 -1000 -750 -500 -250 0.00 250 500 750 1000 1250

A/D VALUE (ADACS)

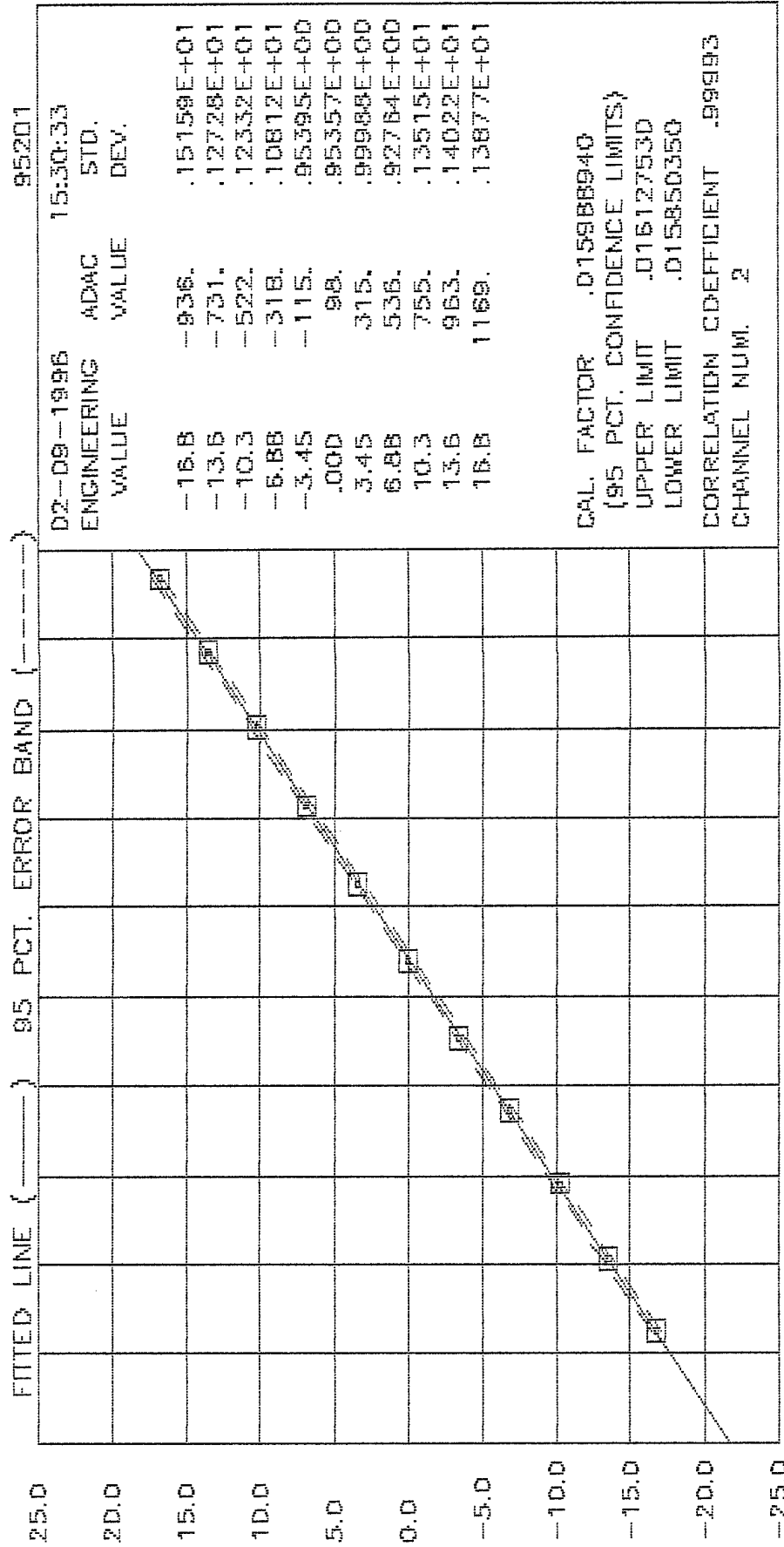
PLOT AND TABLE OF CALIBRATION POINTS FOR PITANG

2.2146 CHANGED DOLBY 9

3.2925 Deg/V

3.2925 Deg/V

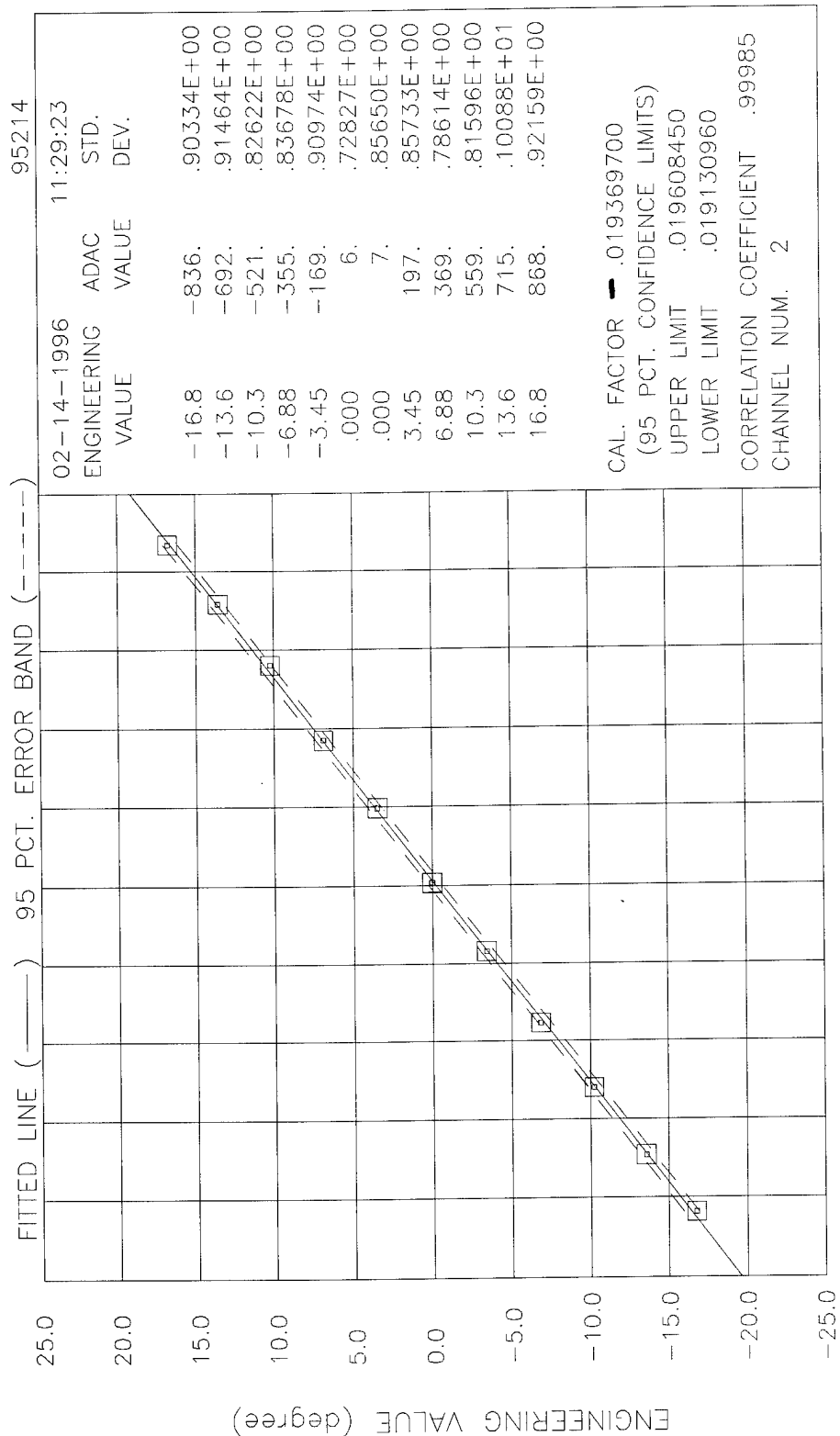




3.275 D/V

PLOT AND TABLE OF CALIBRATION POINTS FOR SWANG

Swang: 1157 To Port 10v for Retang



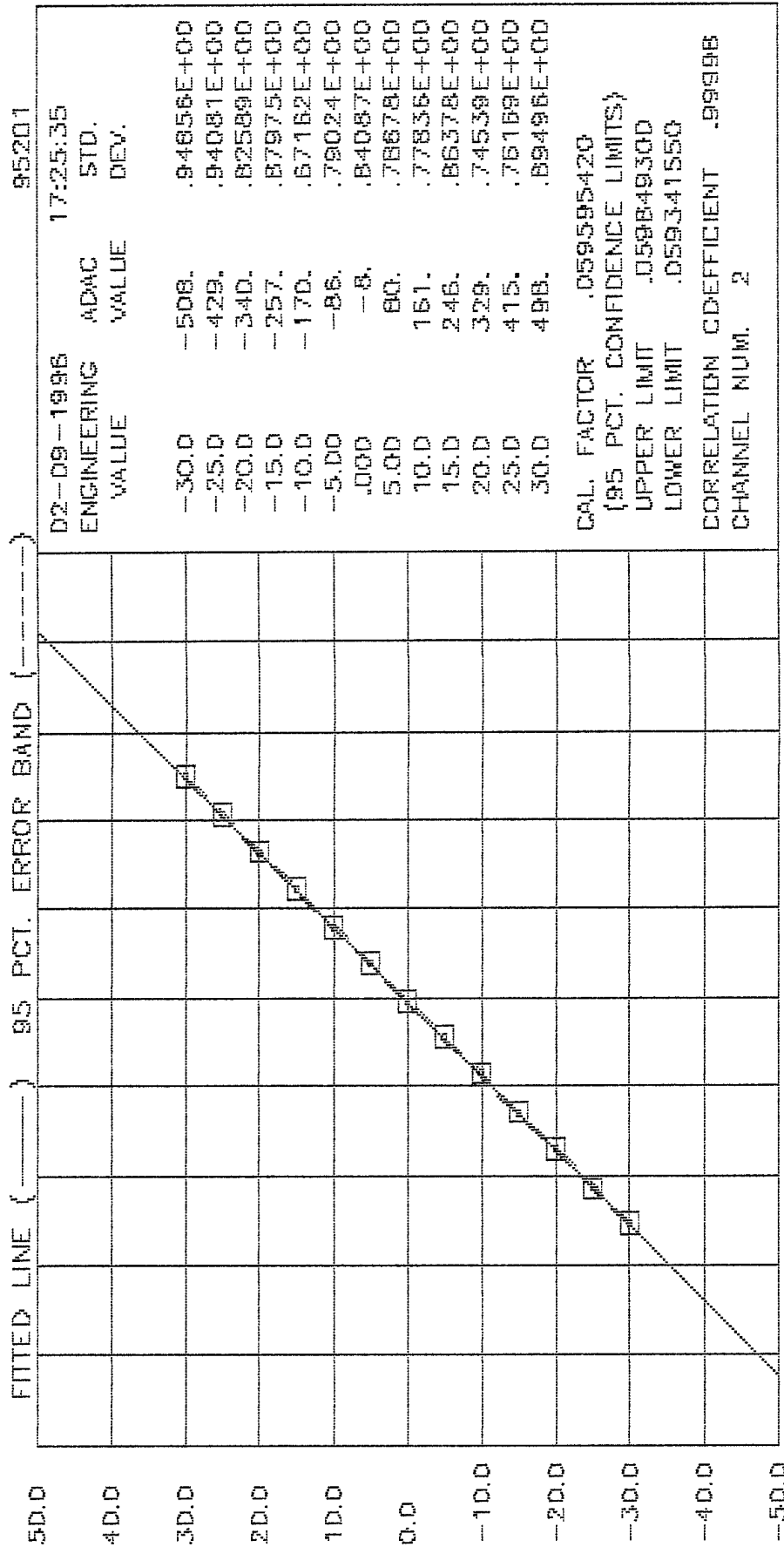
A/D VALUE (ADACS)

PLOT AND TABLE OF CALIBRATION POINTS FOR roleng

02-14-1996 11:29:23 + Rollings (260 Down)

- 3.9669 D/V

2-21-96 No Change

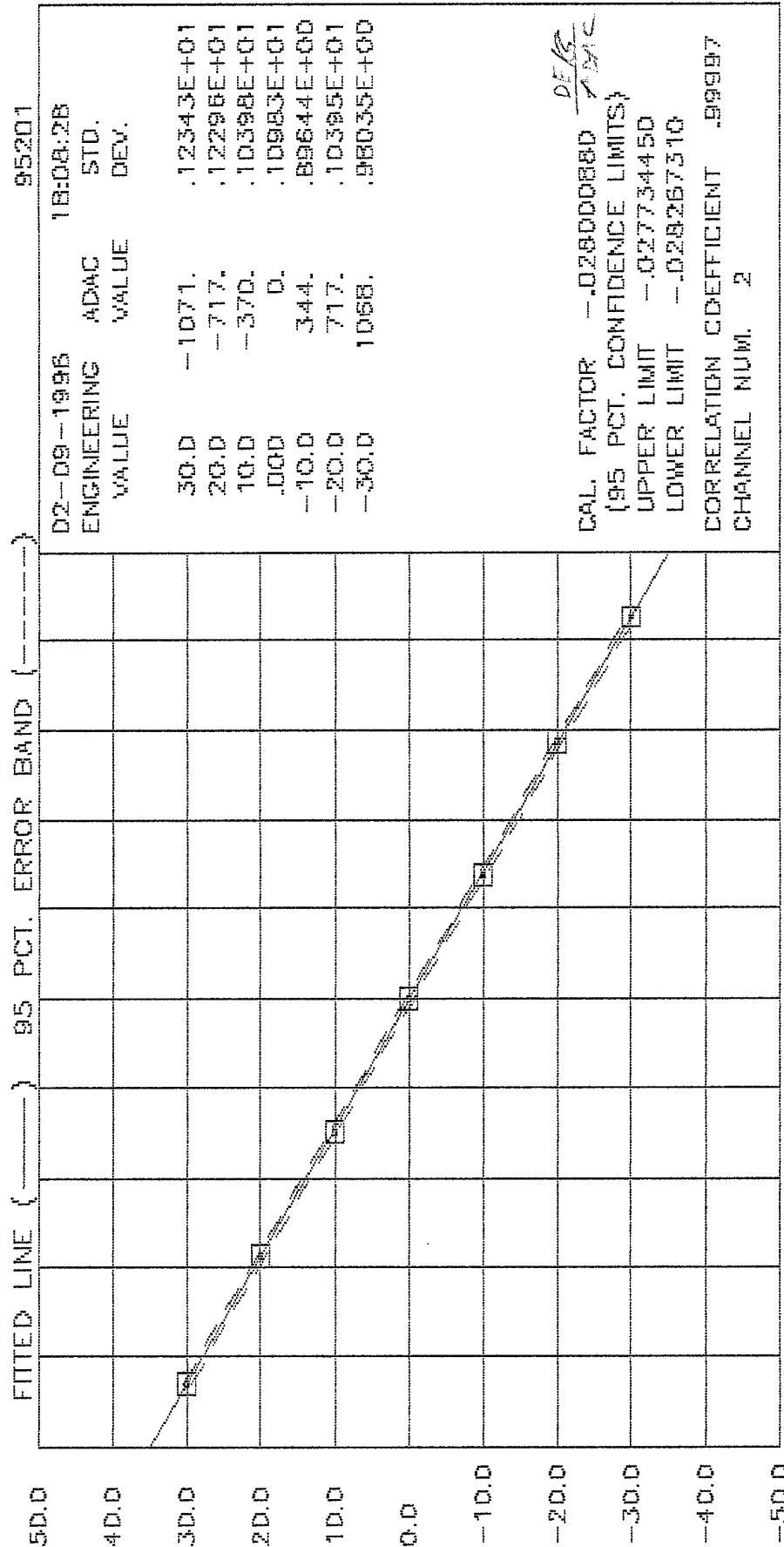


PLOT AND TABLE OF CALIBRATION POINTS FOR DRANG

$$.059 \frac{ft}{ADAC} \cdot \frac{20 \frac{ft}{ADAC}}{10V}$$

- 12.205 ft/V

2-21-96 Calibration of Drang To + = Down



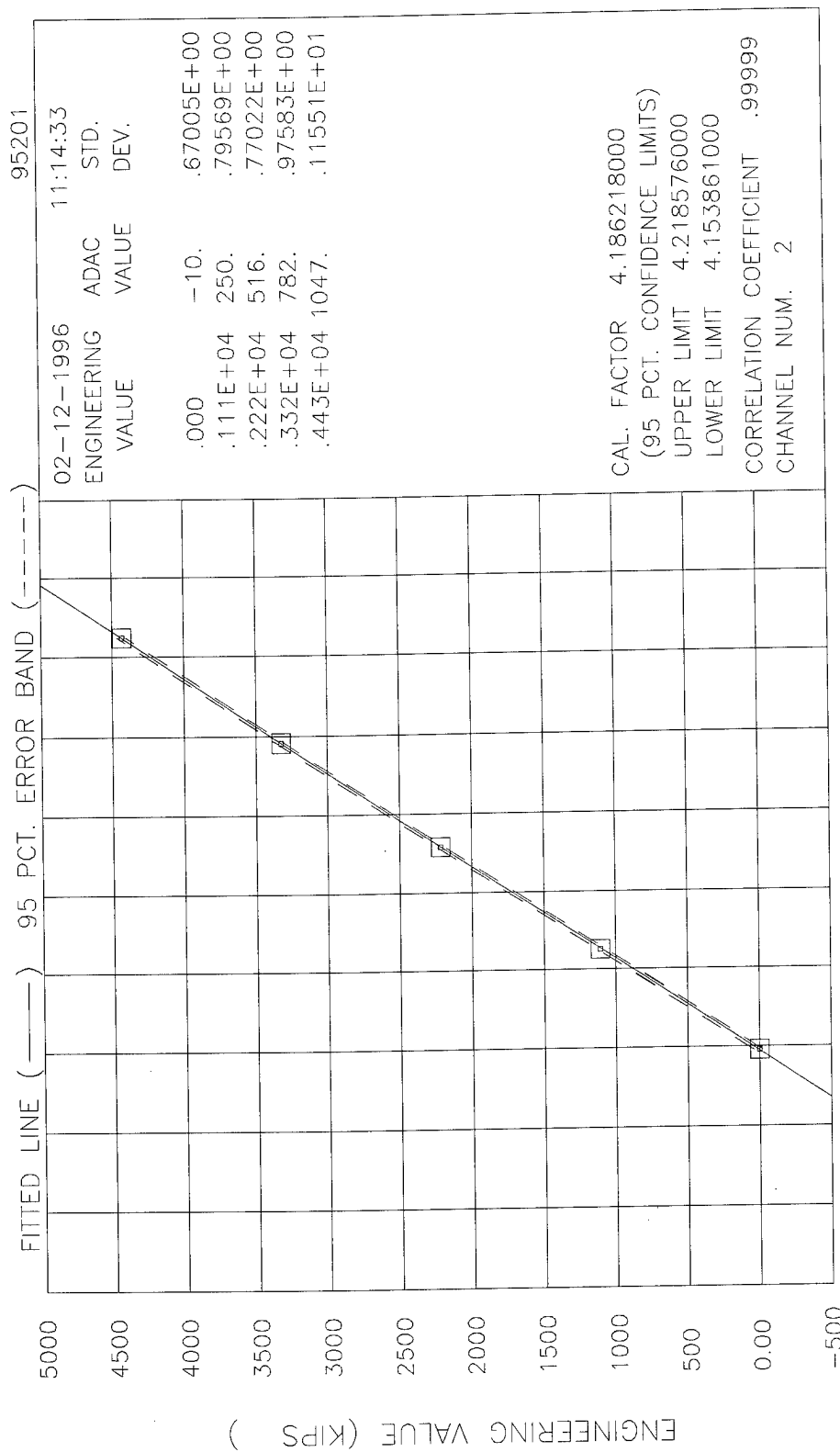
-1250 -1000 -750 -500 -250 0.00 250 500 750 1000 1250

A/D VALUE (ADACS)

PLOT AND TABLE OF CALIBRATION POINTS FOR YAMANG

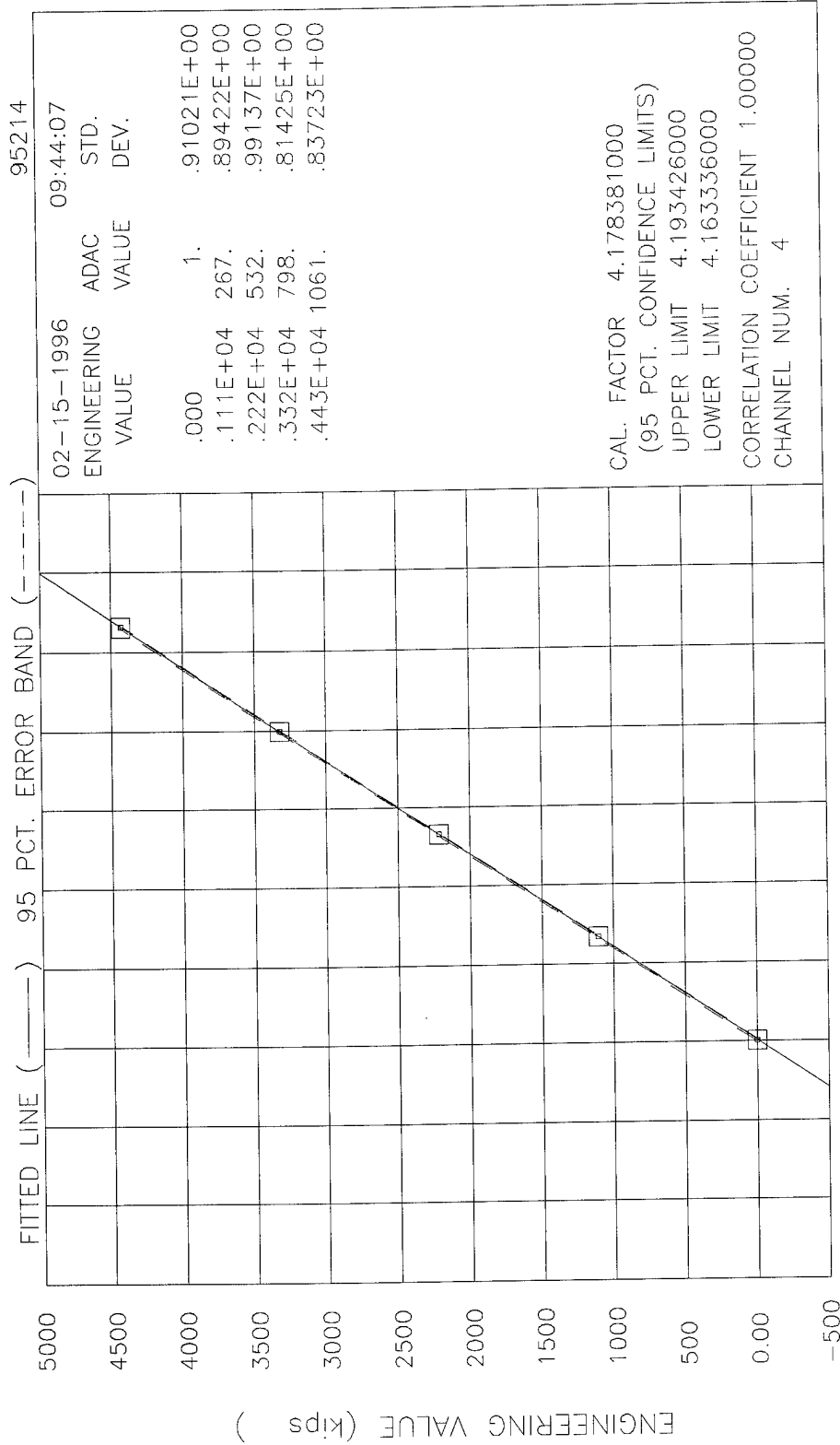
2-21-96 *Chances* Polarity 70 + = Bow to STD

+ 5.735D/N



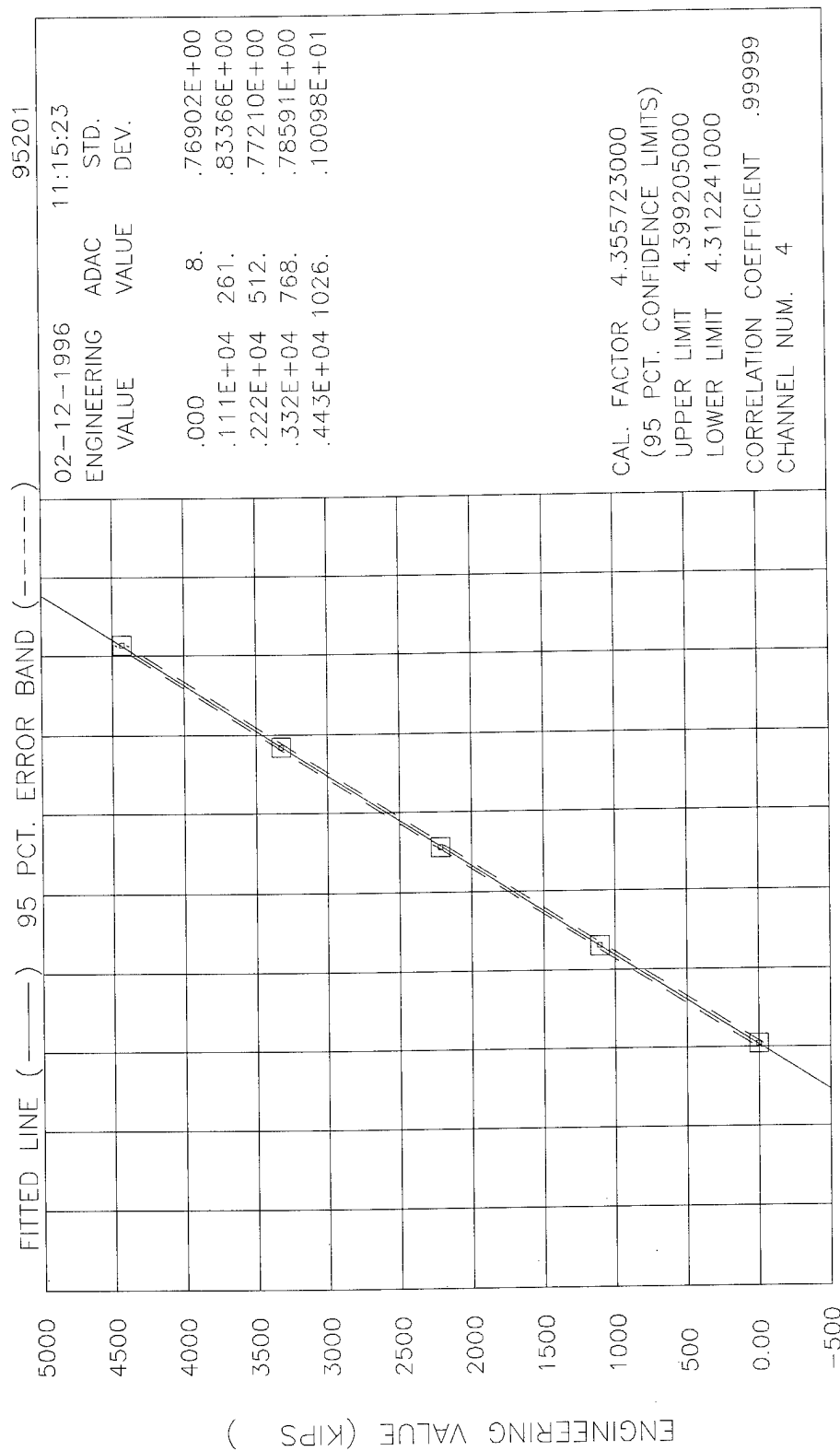
PLOT AND TABLE OF CALIBRATION POINTS FOR ML-1

857.34 x/11



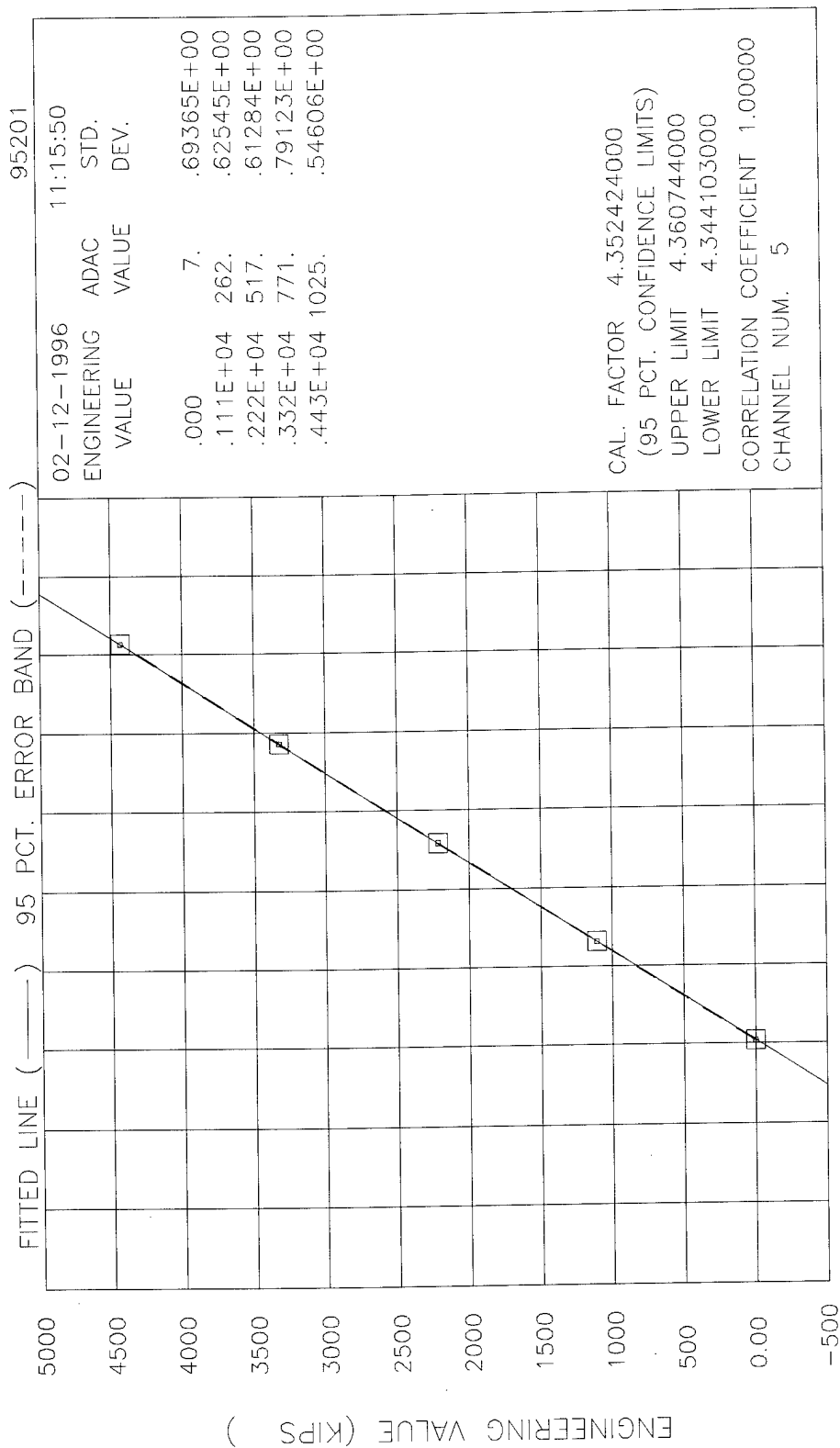
PLOT AND TABLE OF CALIBRATION POINTS FOR ml-2

855.73 K/V



PLOT AND TABLE OF CALIBRATION POINTS FOR ML-3

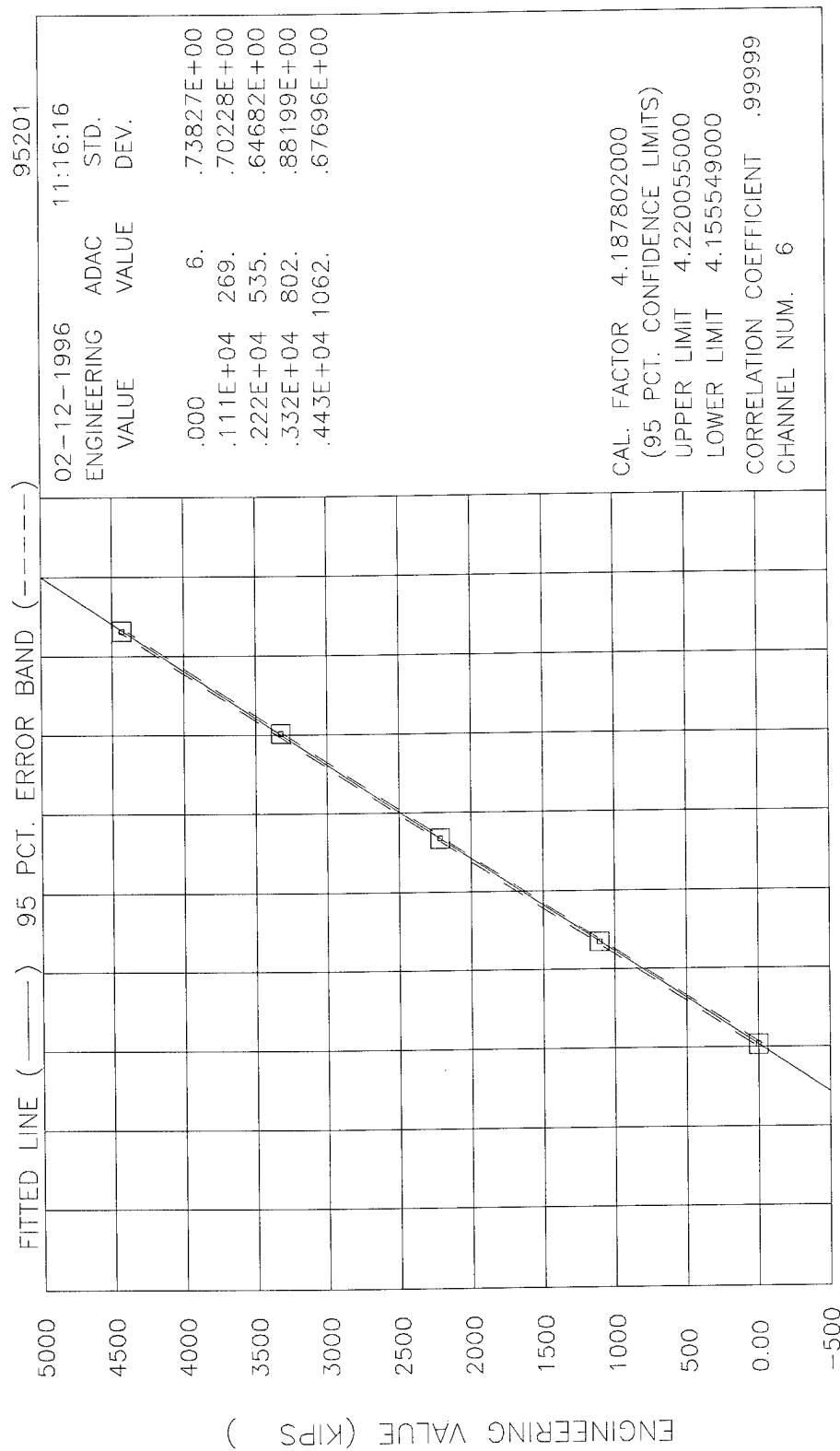
892.05 K/V



PLOT AND TABLE OF CALIBRATION POINTS FOR ML-4

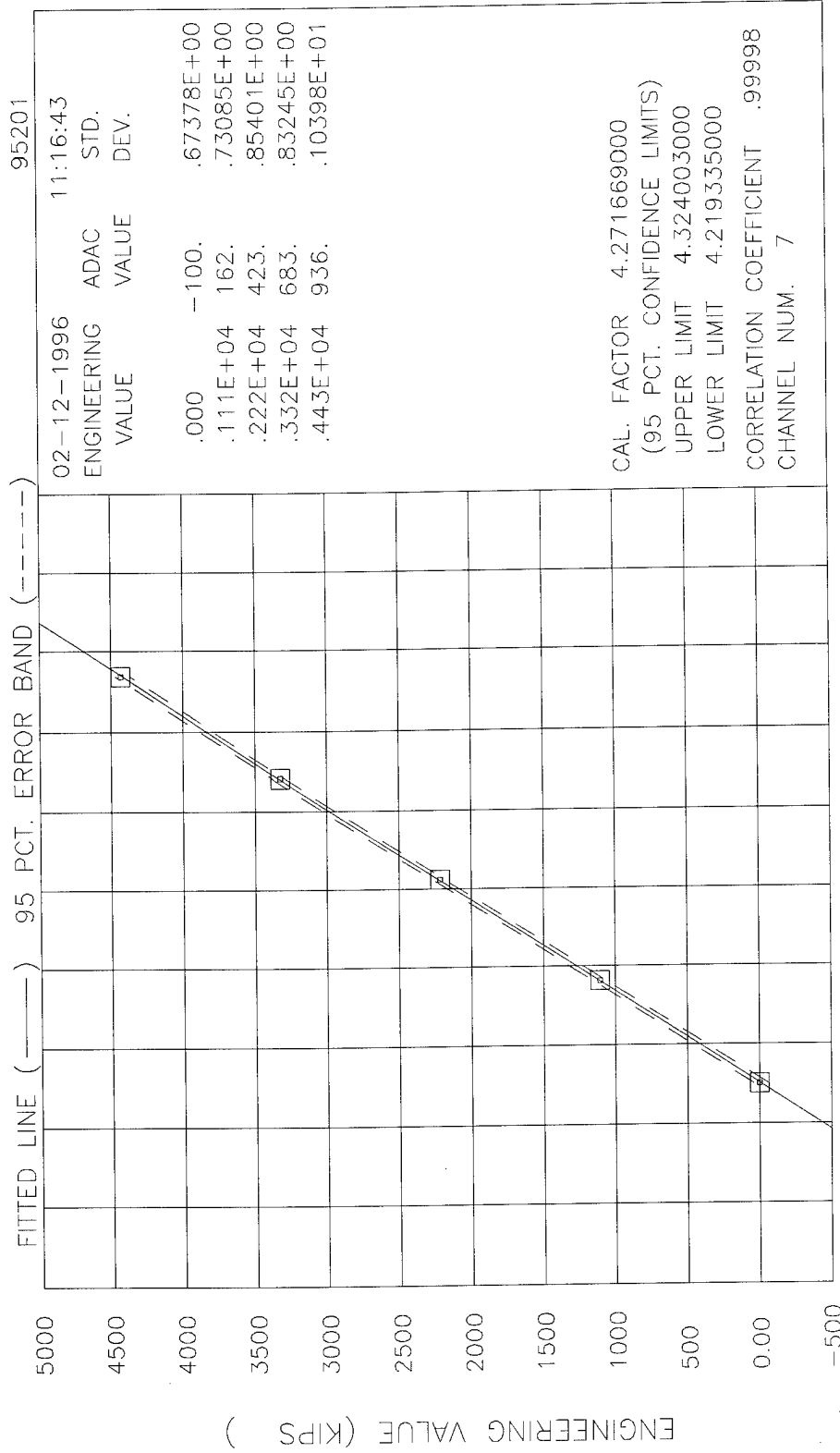
891.38 L/V





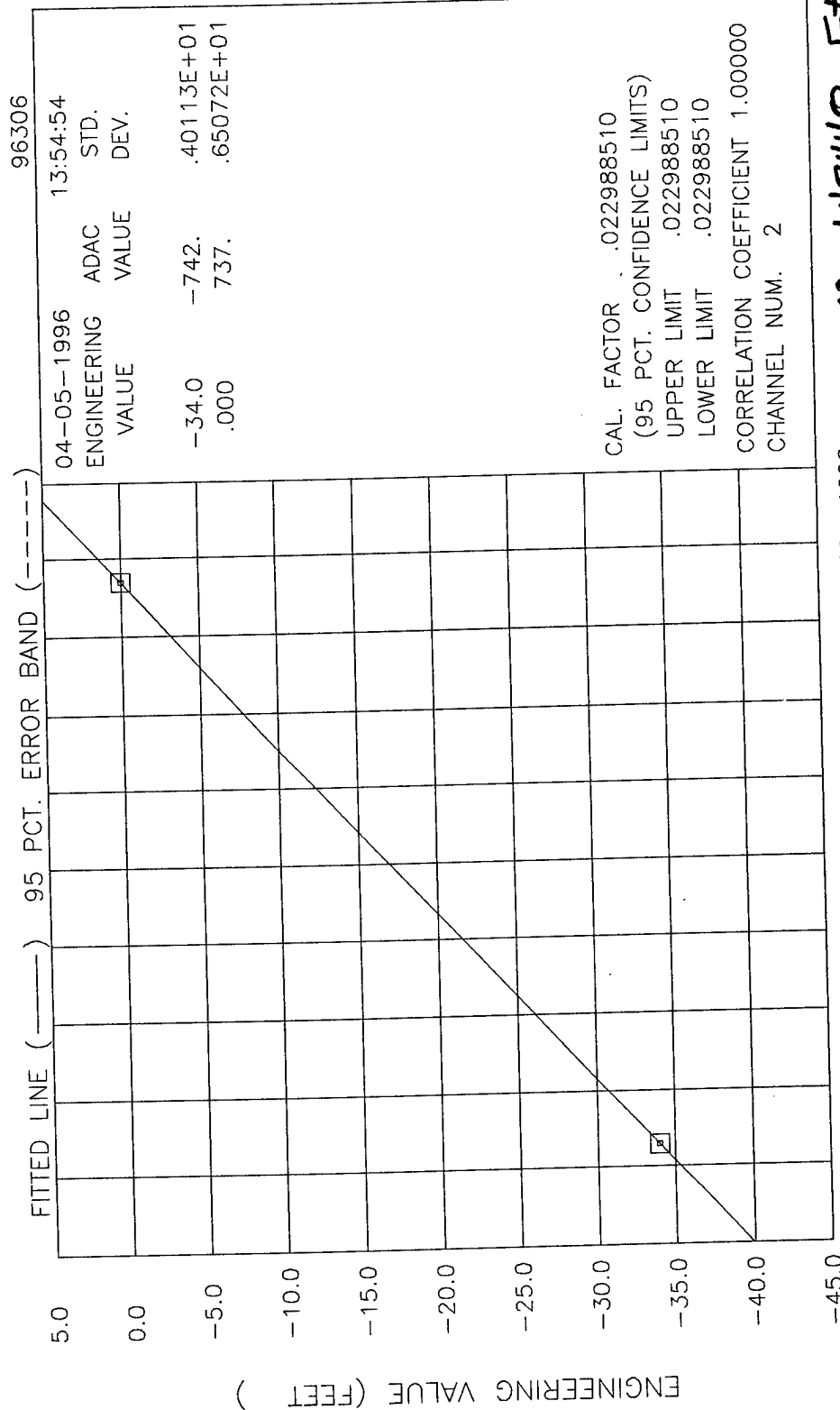
A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR ML-5

857.66 K/V



PLOT AND TABLE OF CALIBRATION POINTS FOR ML-6

874.84 kN

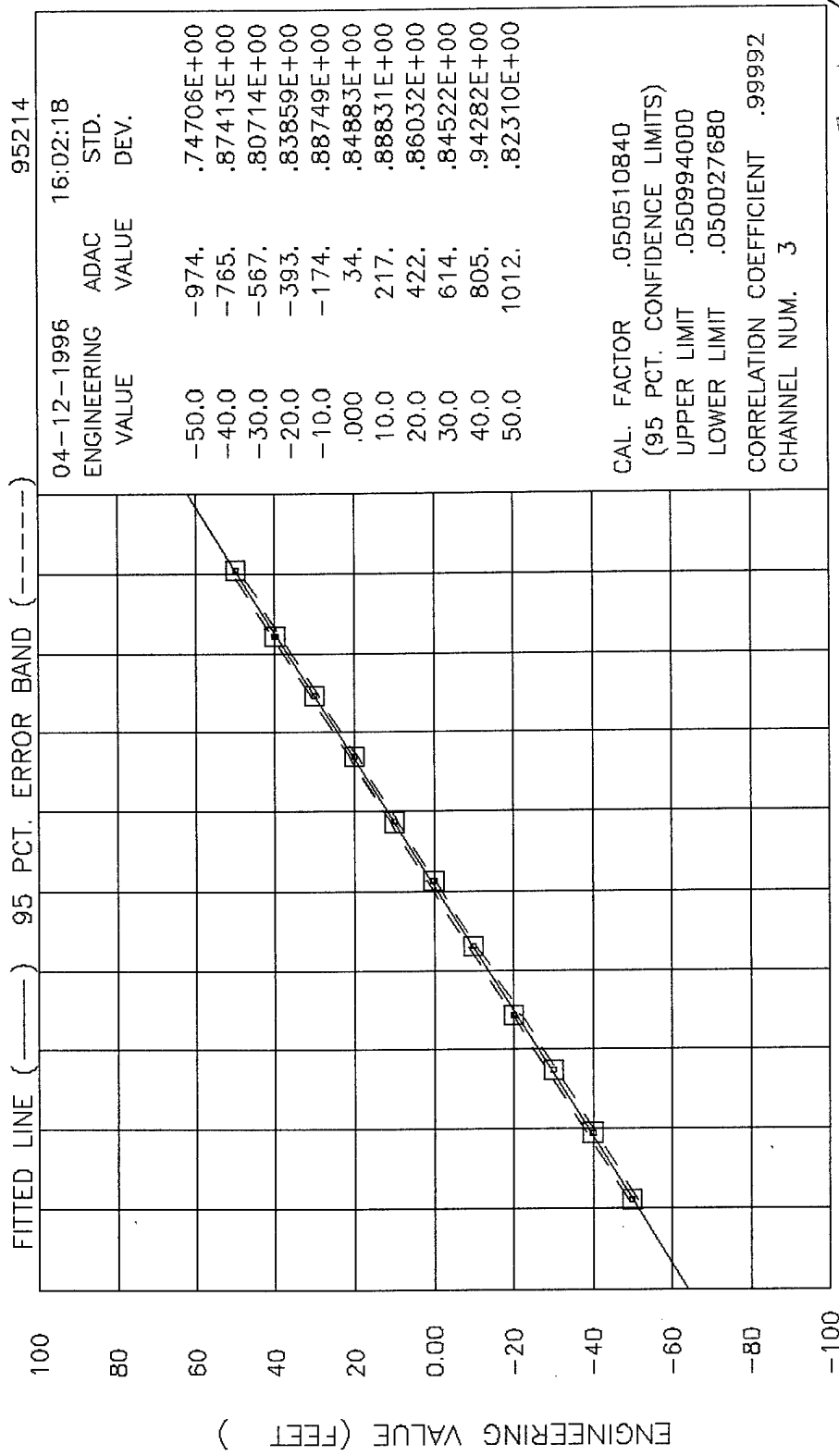


MODEL 1:1  
SCALE

1:7488 = 143448 Ft/Adac  
 29.378 Ft/V

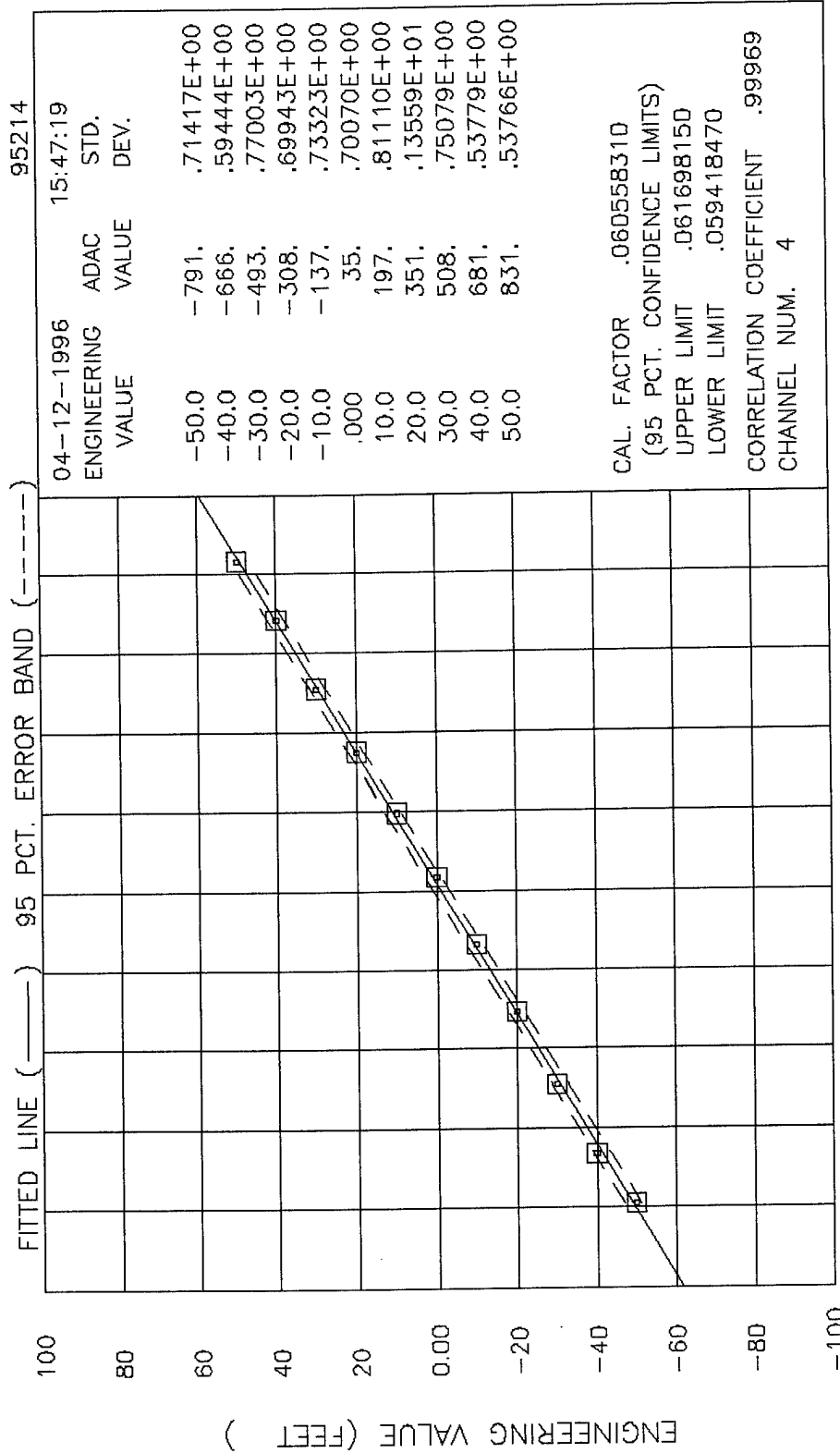
PLOT AND TABLE OF CALIBRATION POINTS FOR STROKE

1:60 0.11 444255 Ft/Adac  
 23.540 Ft/V



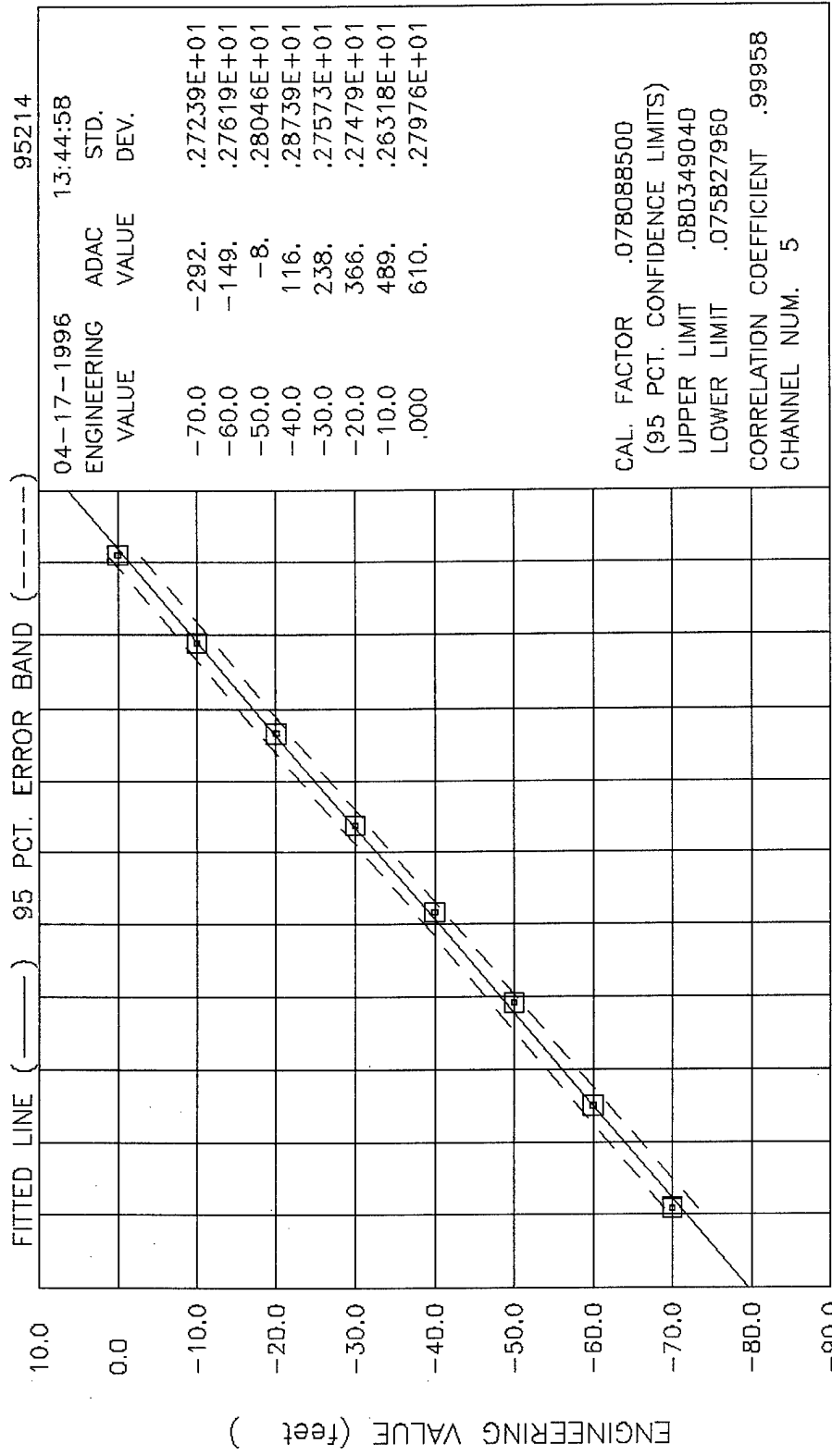
10.345 ft/V

PLOT AND TABLE OF CALIBRATION POINTS FOR WAVE-1



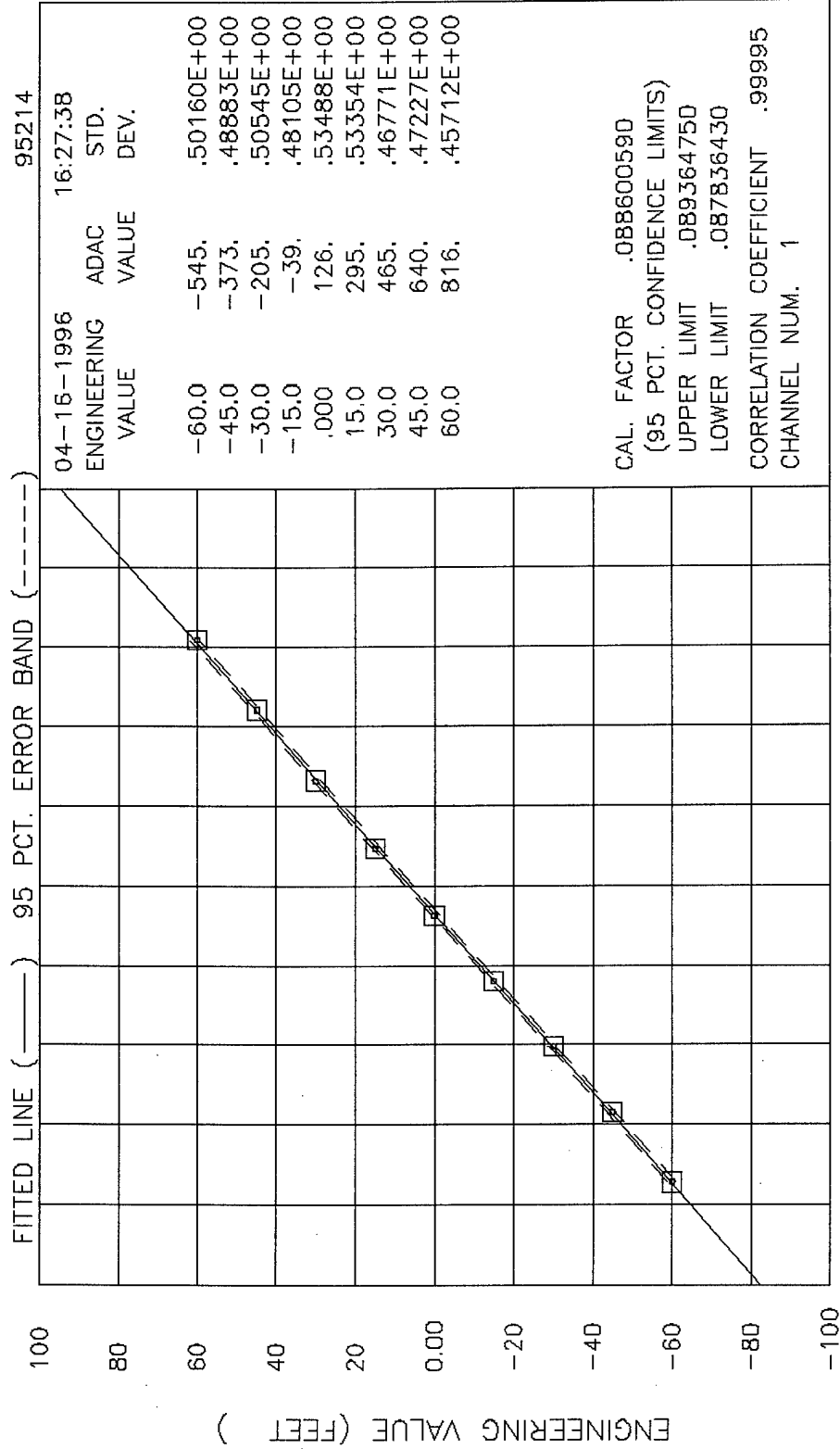
A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR WAVE-2

12.402 *Fe/V*



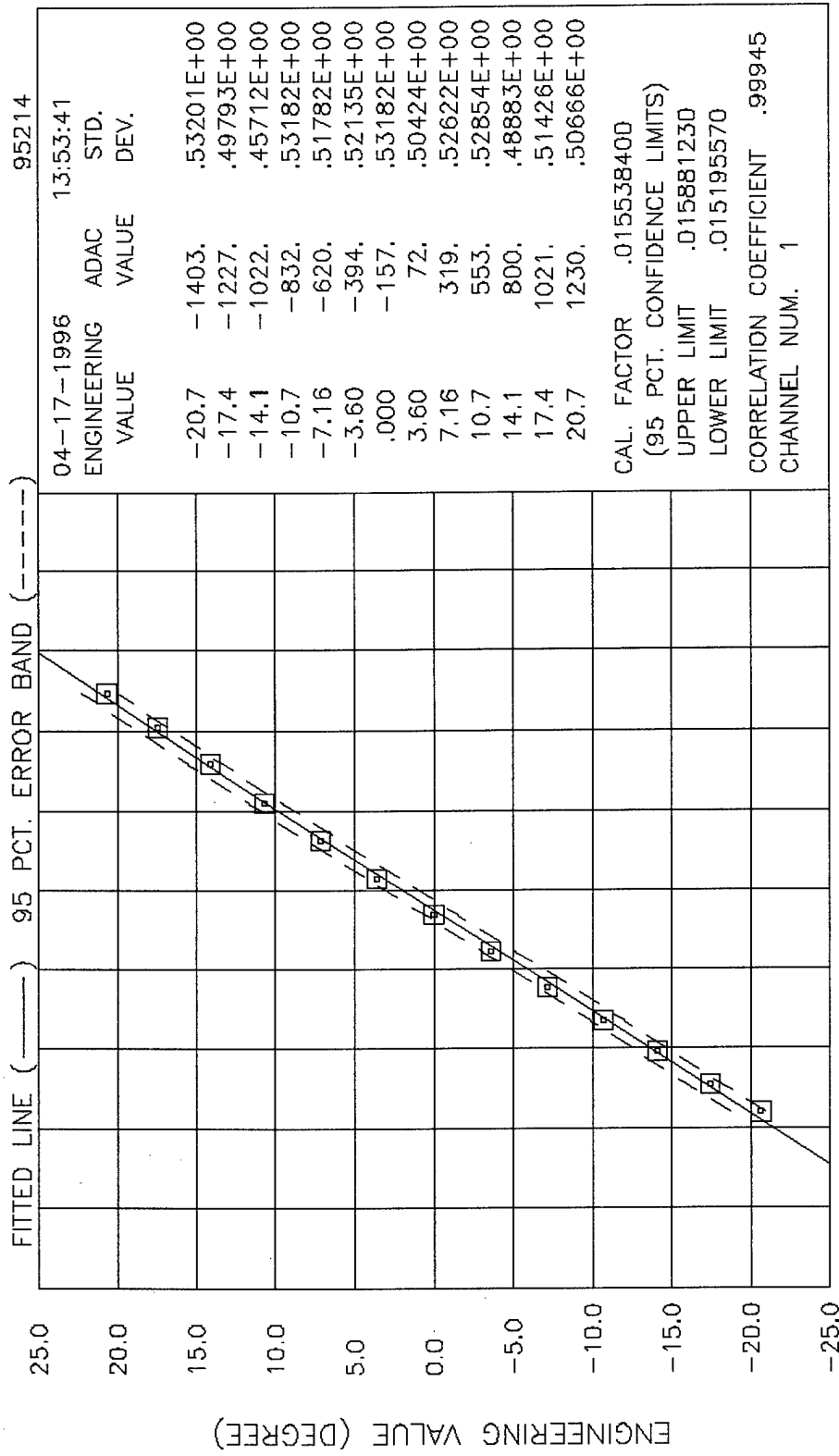
A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR airgap

15.992 Feb/1



18.145  
FT/V

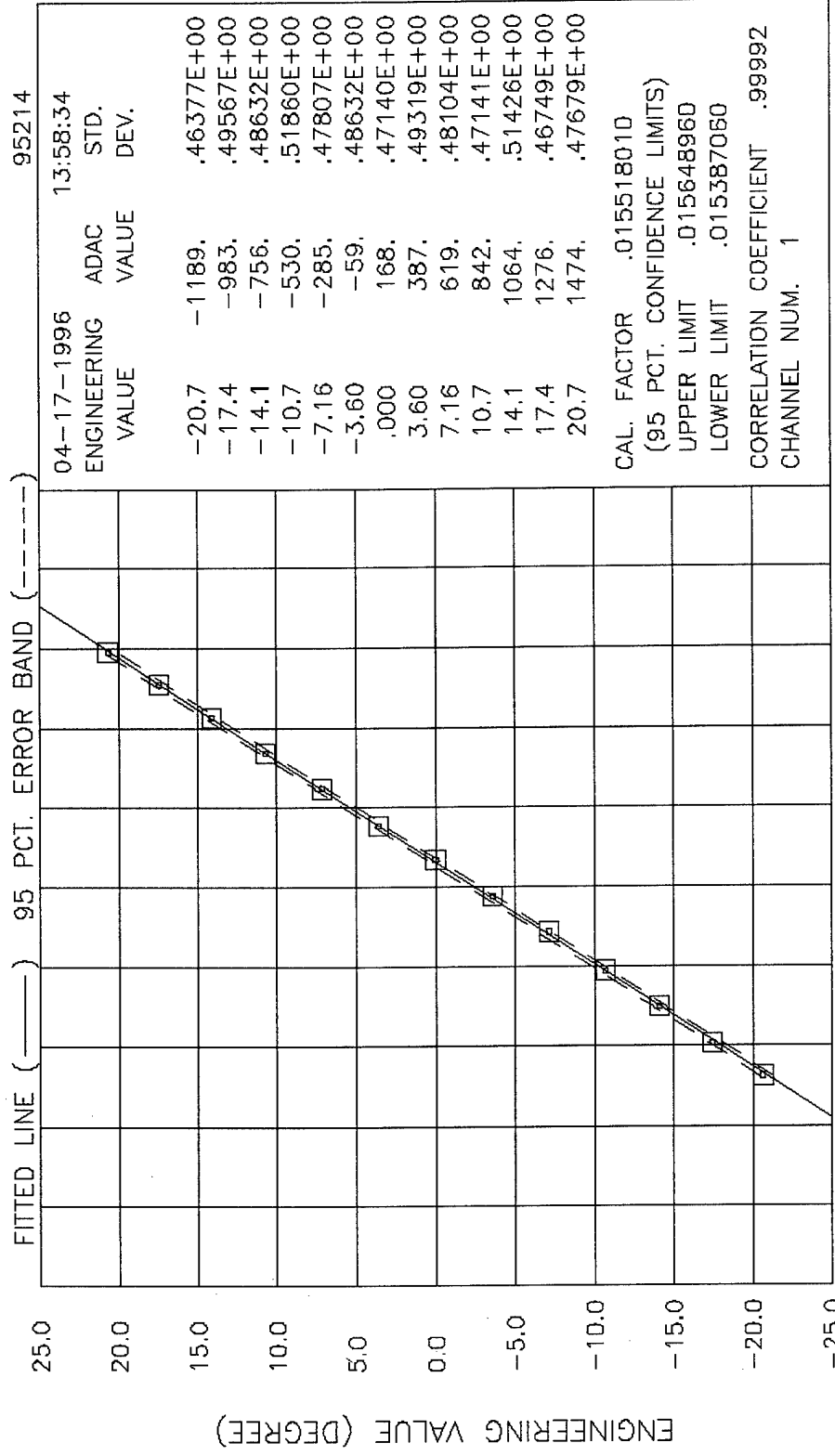
PLOT AND TABLE OF CALIBRATION POINTS FOR DRANG



-2500-2000-1500-1000-500 0.00 500 1000 1500 2000 2500  
 A/D VALUE (ADACS)  
 PLOT AND TABLE OF CALIBRATION POINTS FOR SURANG

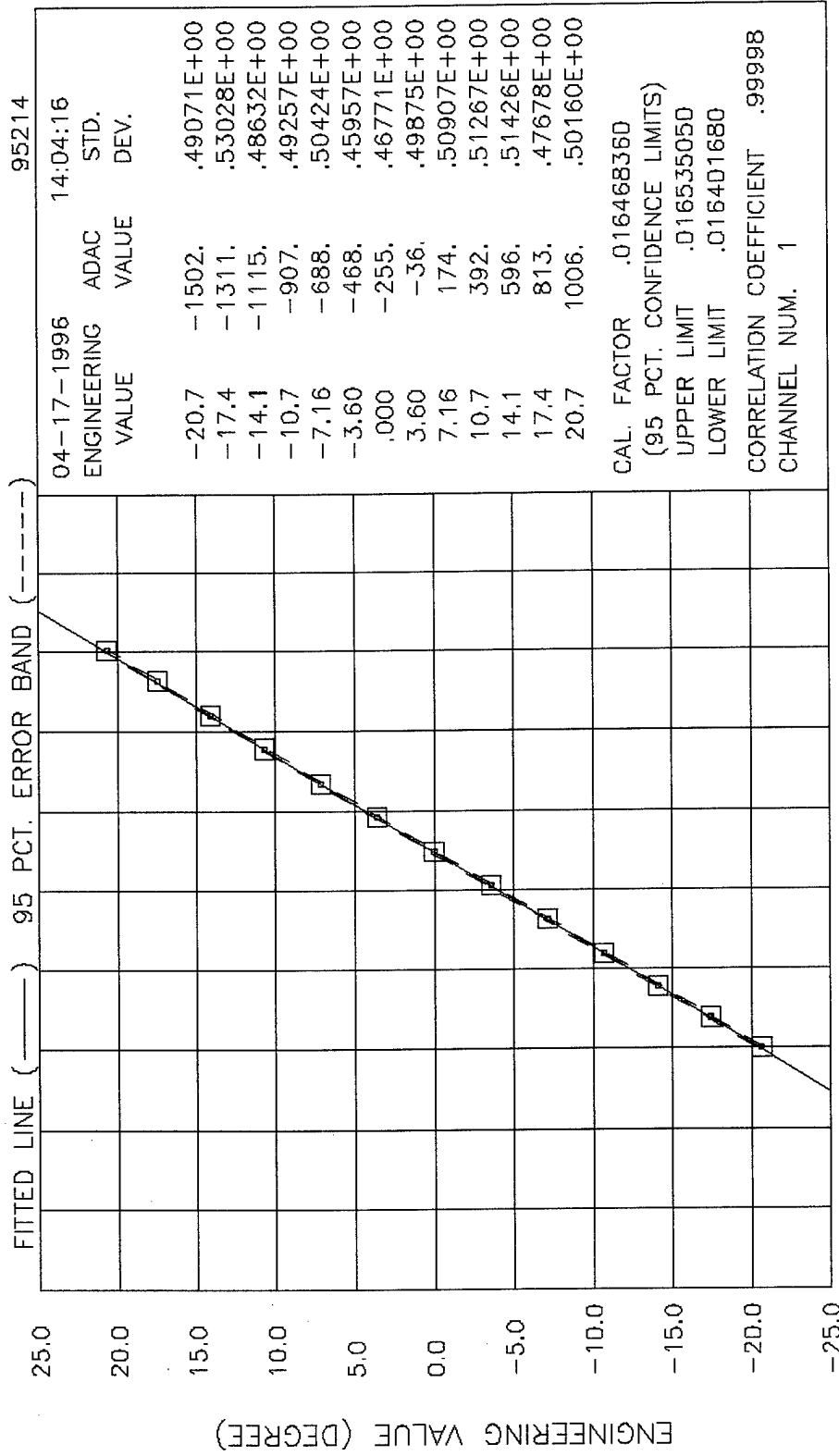
3.182 DEG/V





A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR SWANG

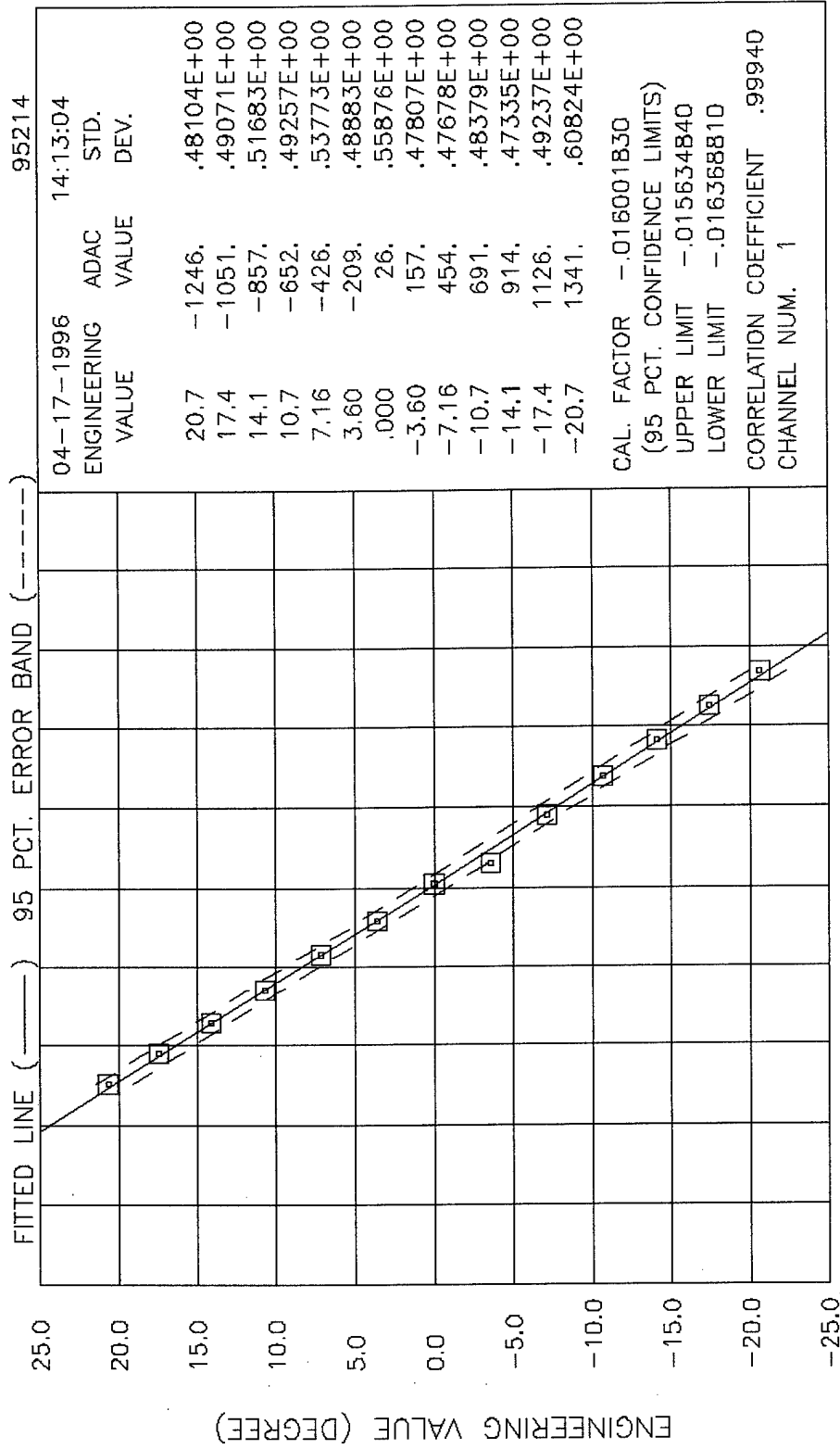
3.178 Deg/V



A/D VALUE (ADACS)

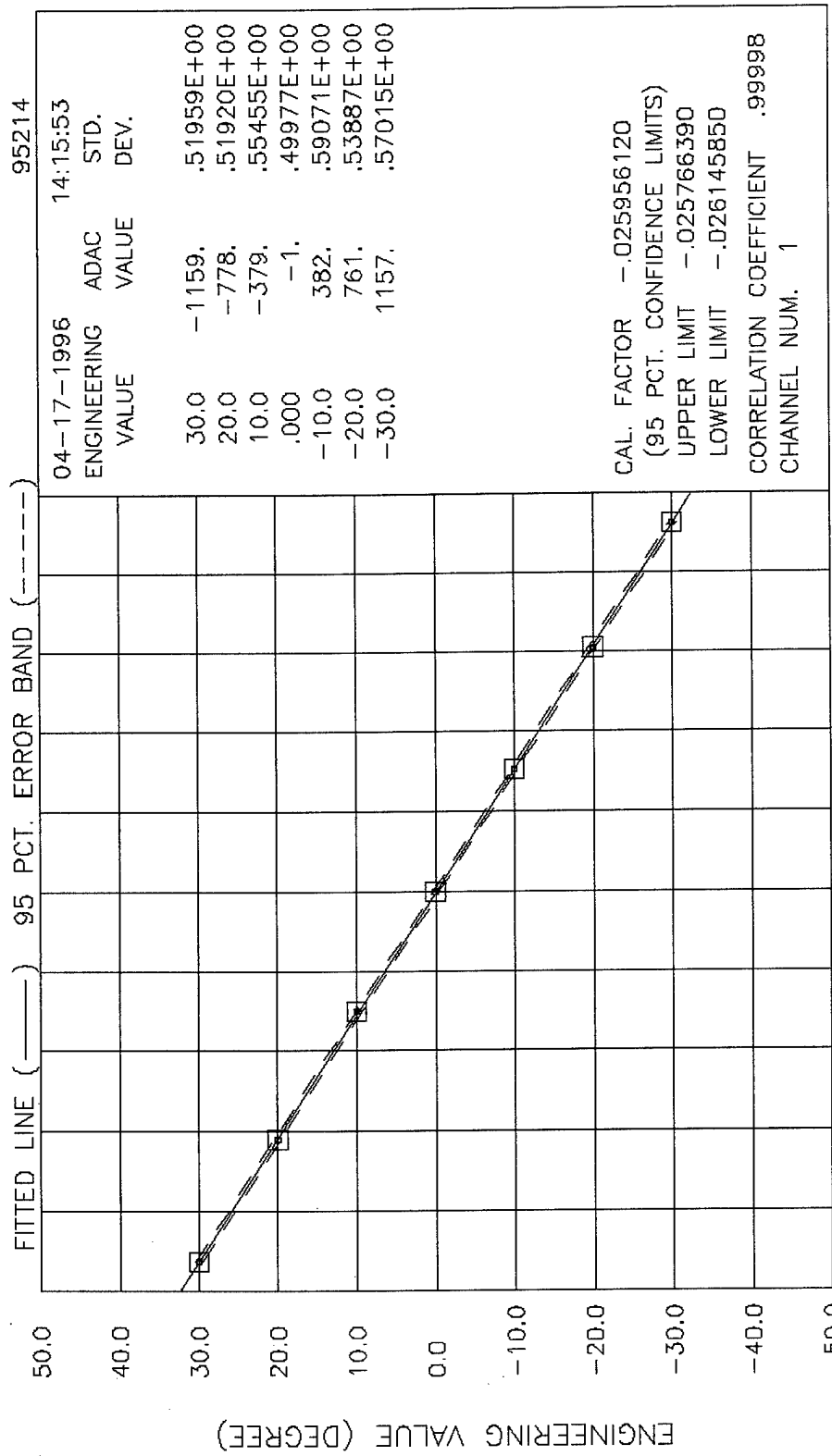
PLOT AND TABLE OF CALIBRATION POINTS FOR PITANG

3.3726 DEG/V



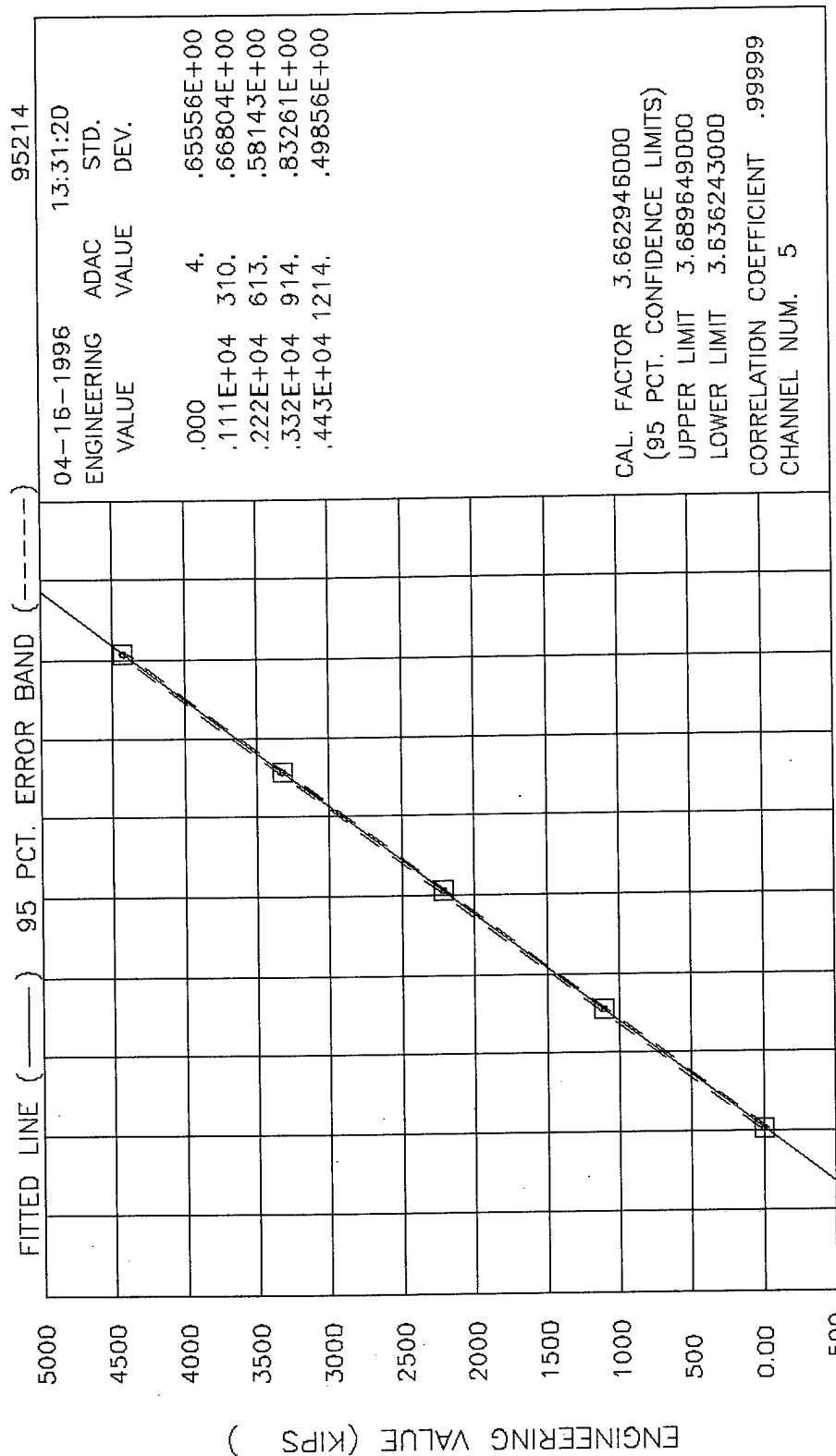
A/D VALUE (ADACS)  
 PLOT AND TABLE OF CALIBRATION POINTS FOR ROLANG

3.277 Dec 9/V



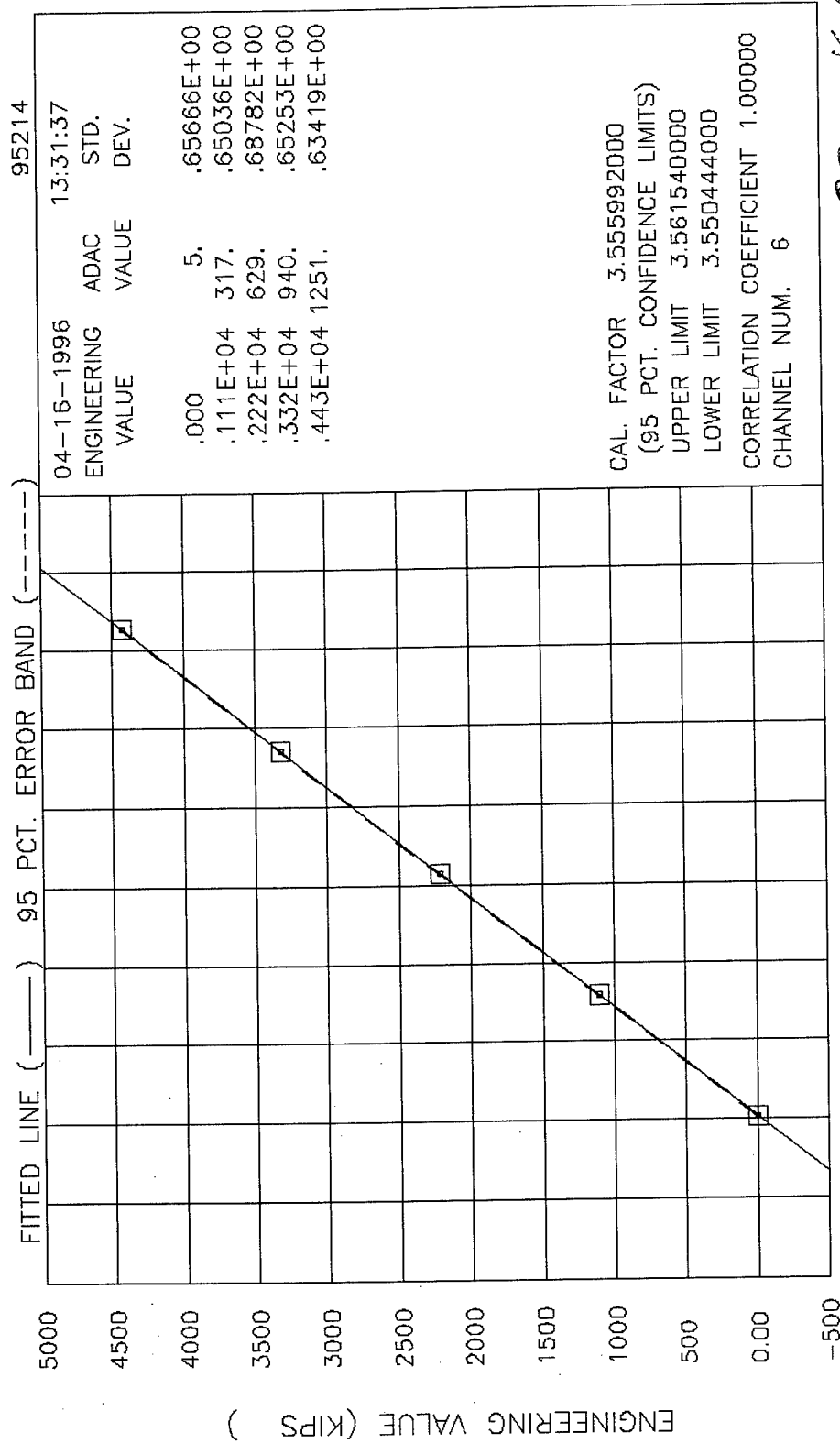
- 5.316 DEG/V

PLOT AND TABLE OF CALIBRATION POINTS FOR YAWANG



A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR ML-1

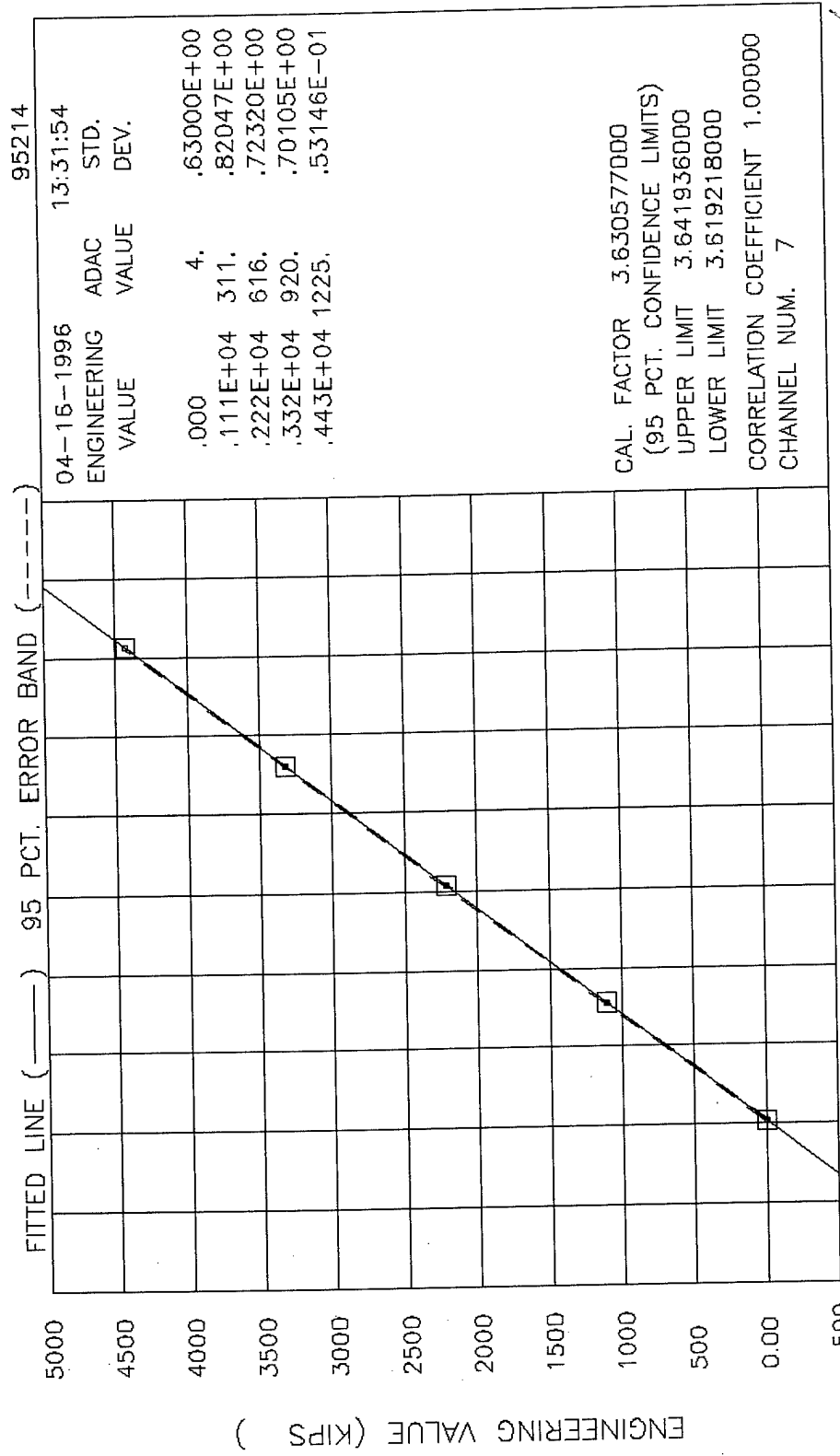
750.17 Kips/d



A/D VALUE (ADACS)

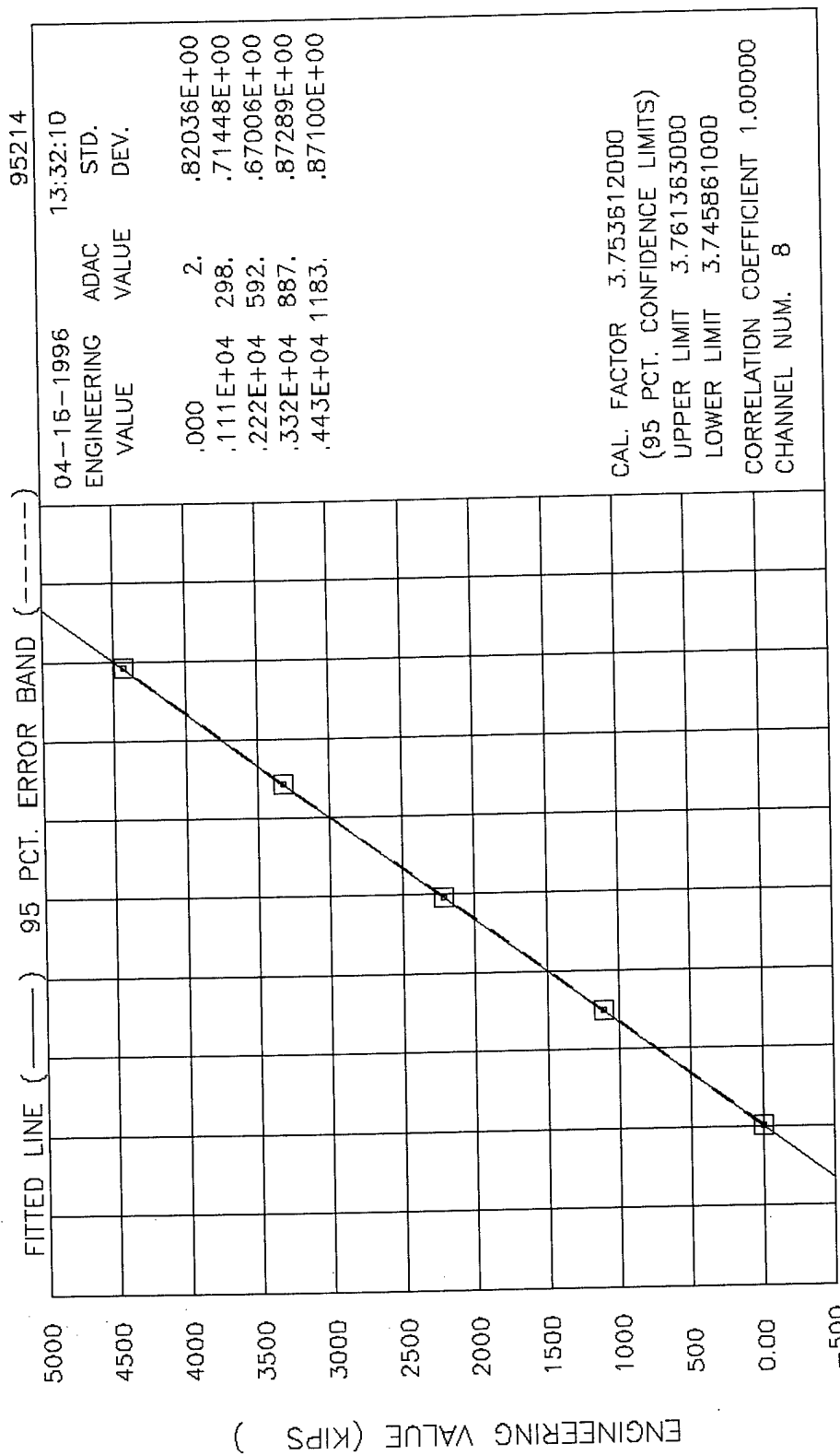
PLOT AND TABLE OF CALIBRATION POINTS FOR ML-2

728.27 K/V



PLOT AND TABLE OF CALIBRATION POINTS FOR ML-3

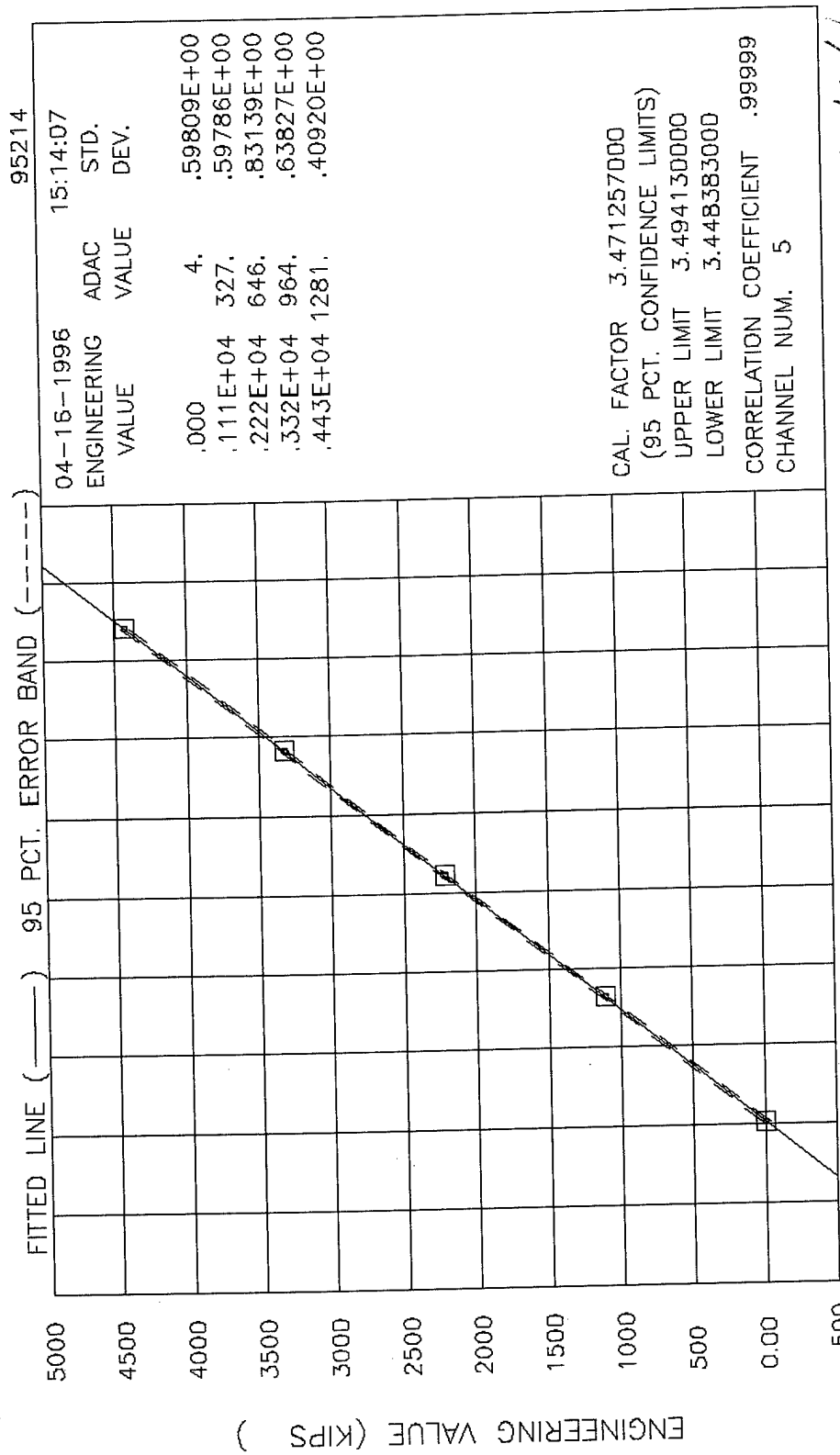
743.54 K/D



PLOT AND TABLE OF CALIBRATION POINTS FOR ML-4

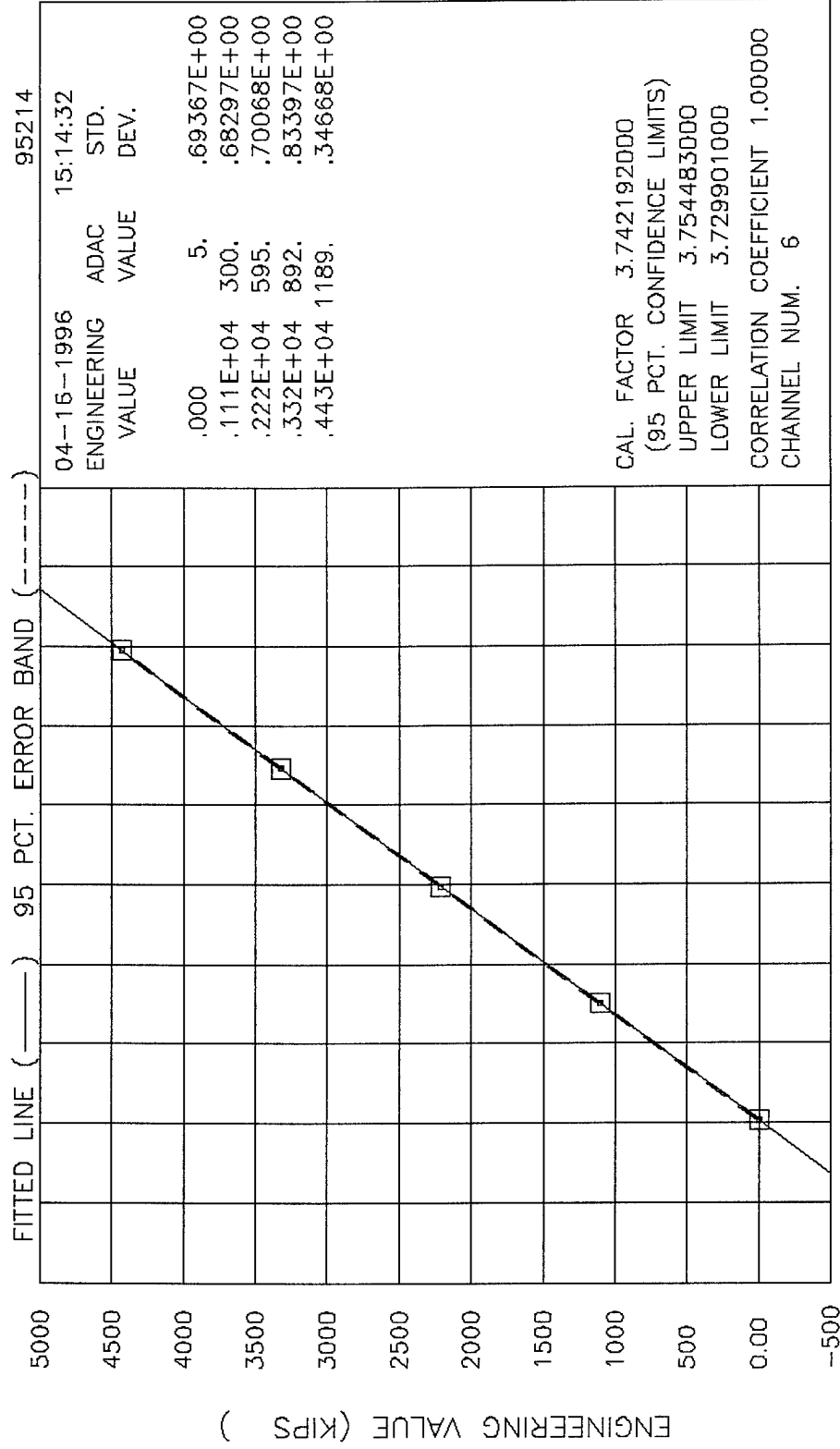
768.74 Kips/V





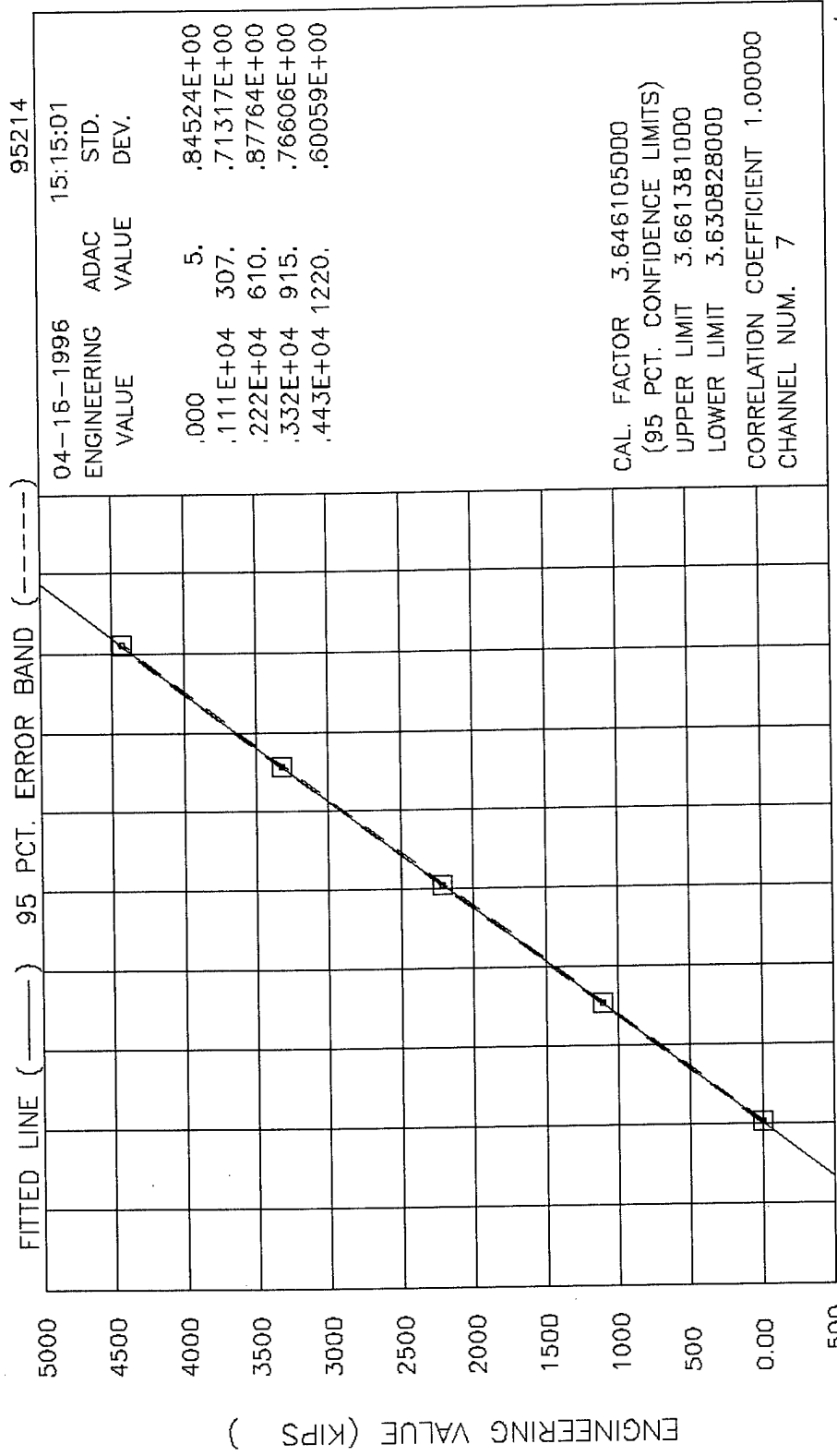
710.91 K/V

PLOT AND TABLE OF CALIBRATION POINTS FOR ML-5



A/D VALUE (ADACS)  
PLOT AND TABLE OF CALIBRATION POINTS FOR ML-6

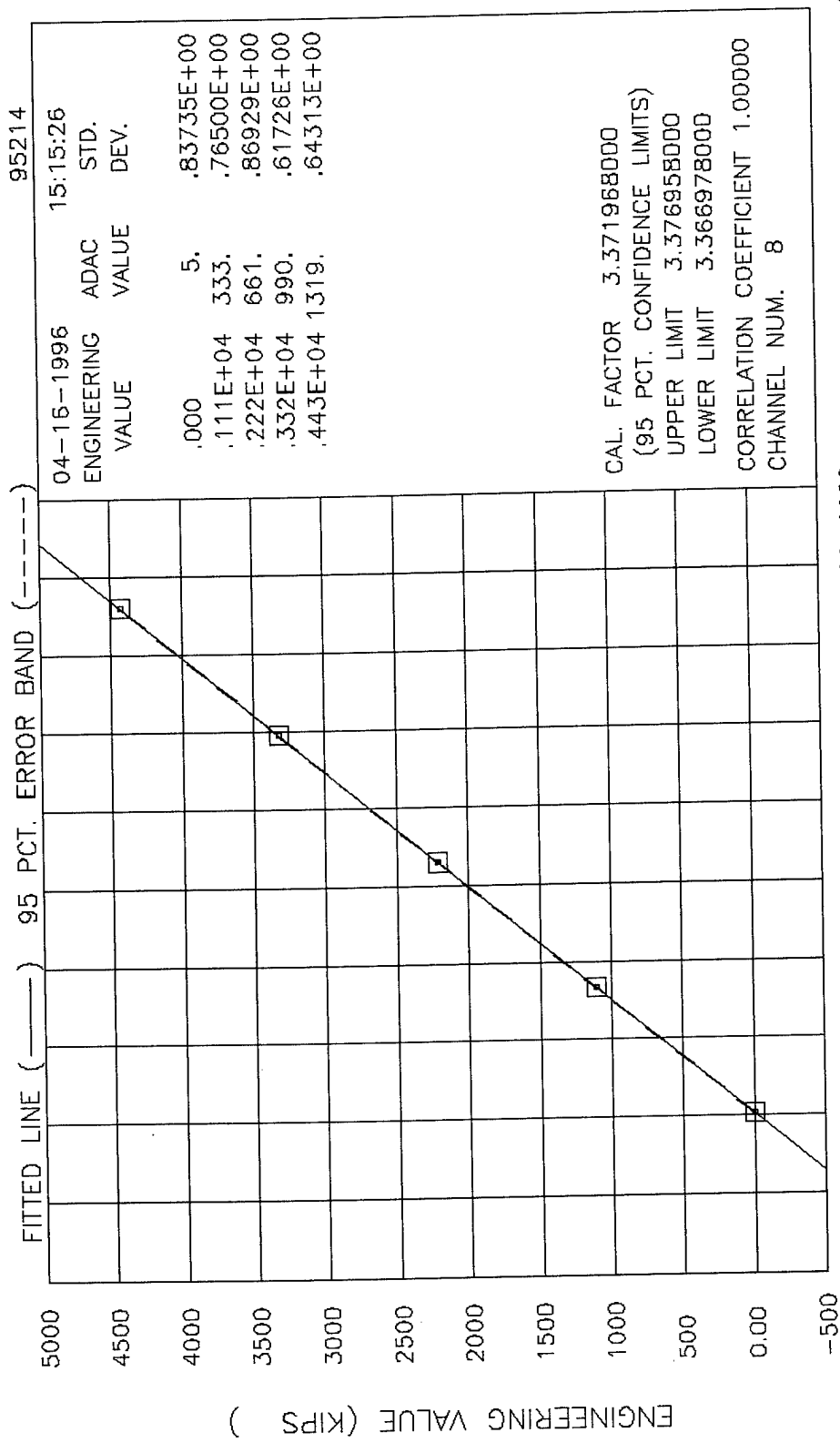
766.40 E/V



A/D VALUE (ADACS)

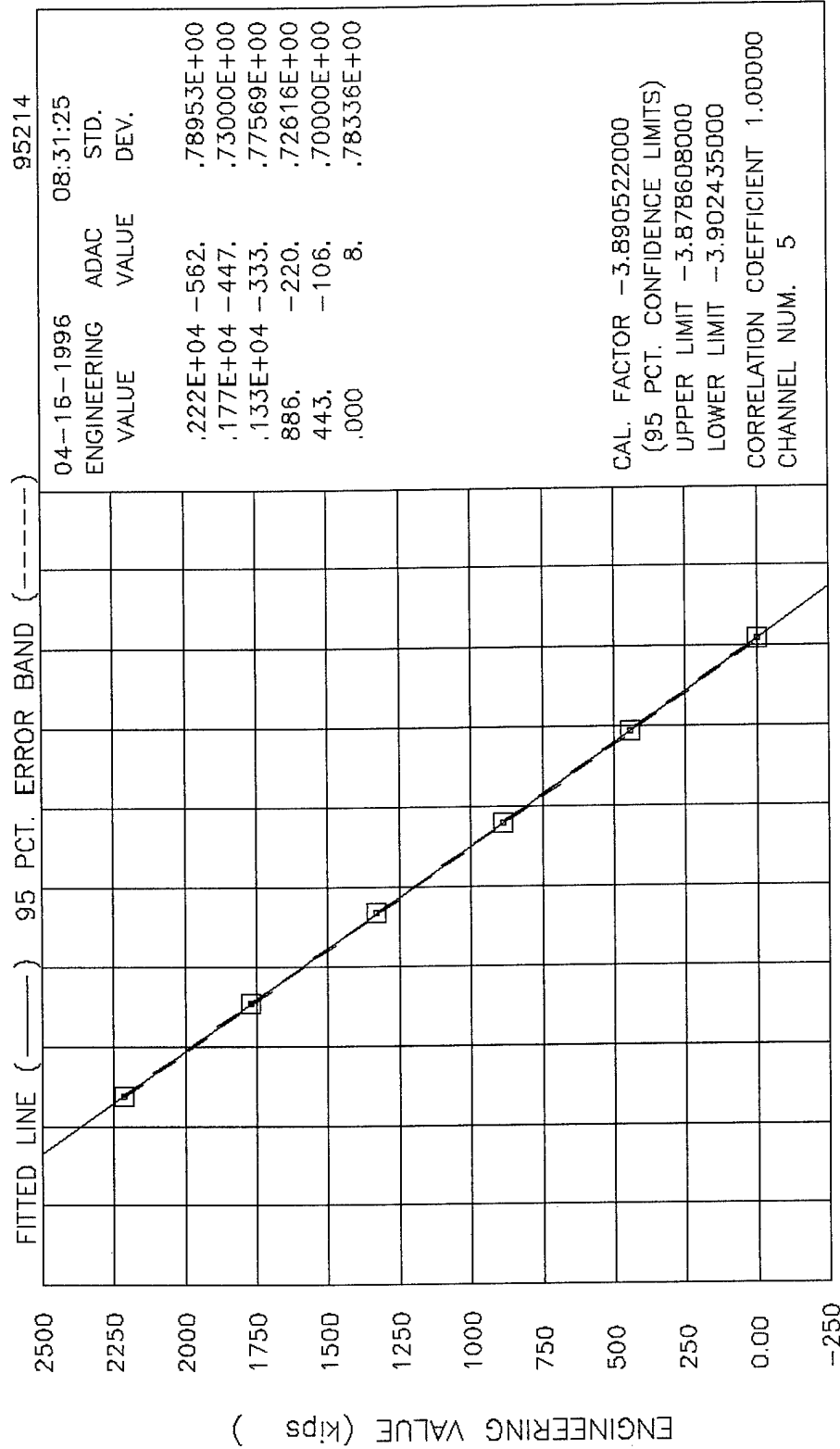
PLOT AND TABLE OF CALIBRATION POINTS FOR ML-7

746.72/K/V



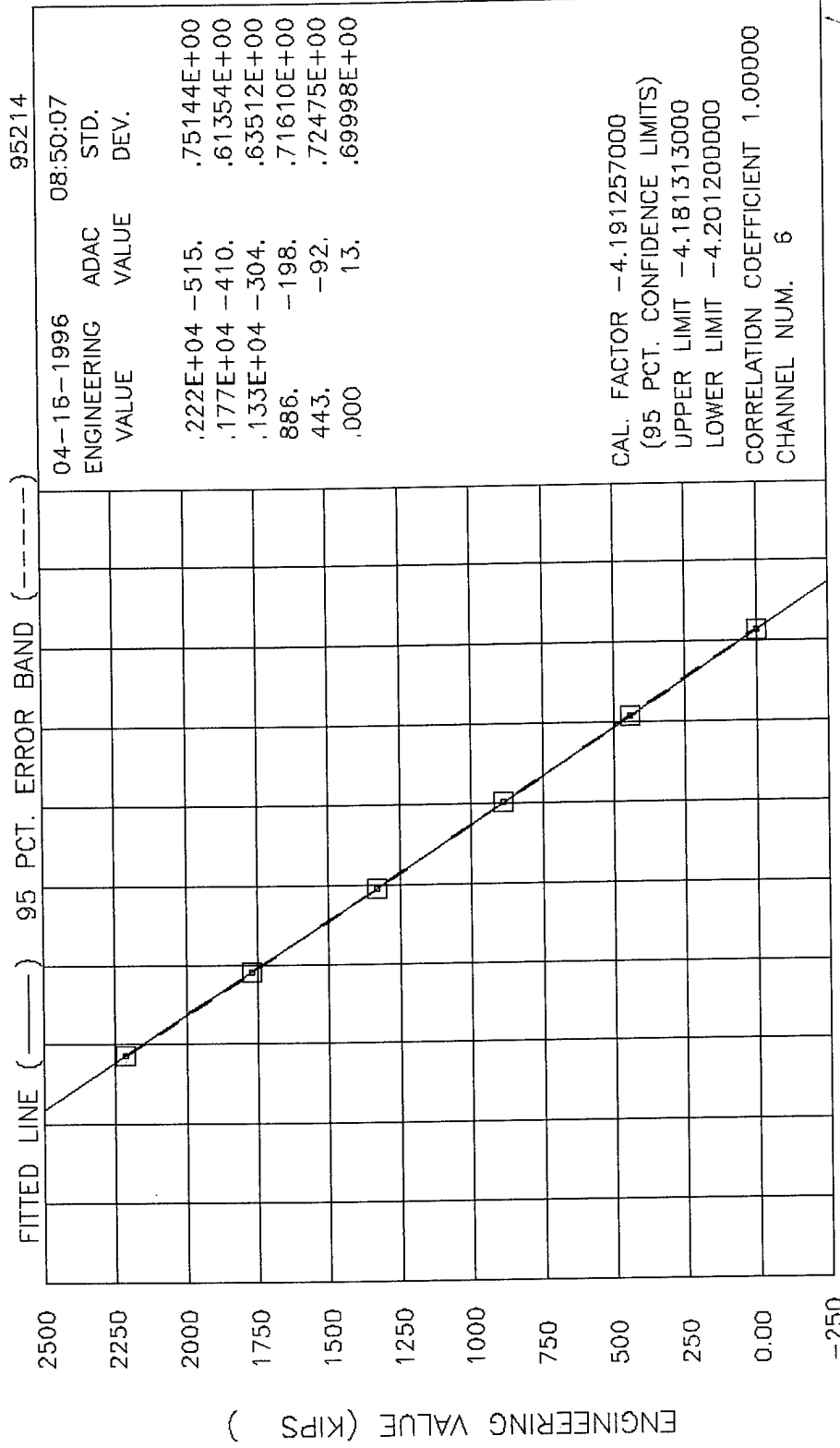
690.58K/V

A/D VALUE (ADACS)  
 PLOT AND TABLE OF CALIBRATION POINTS FOR ML-8



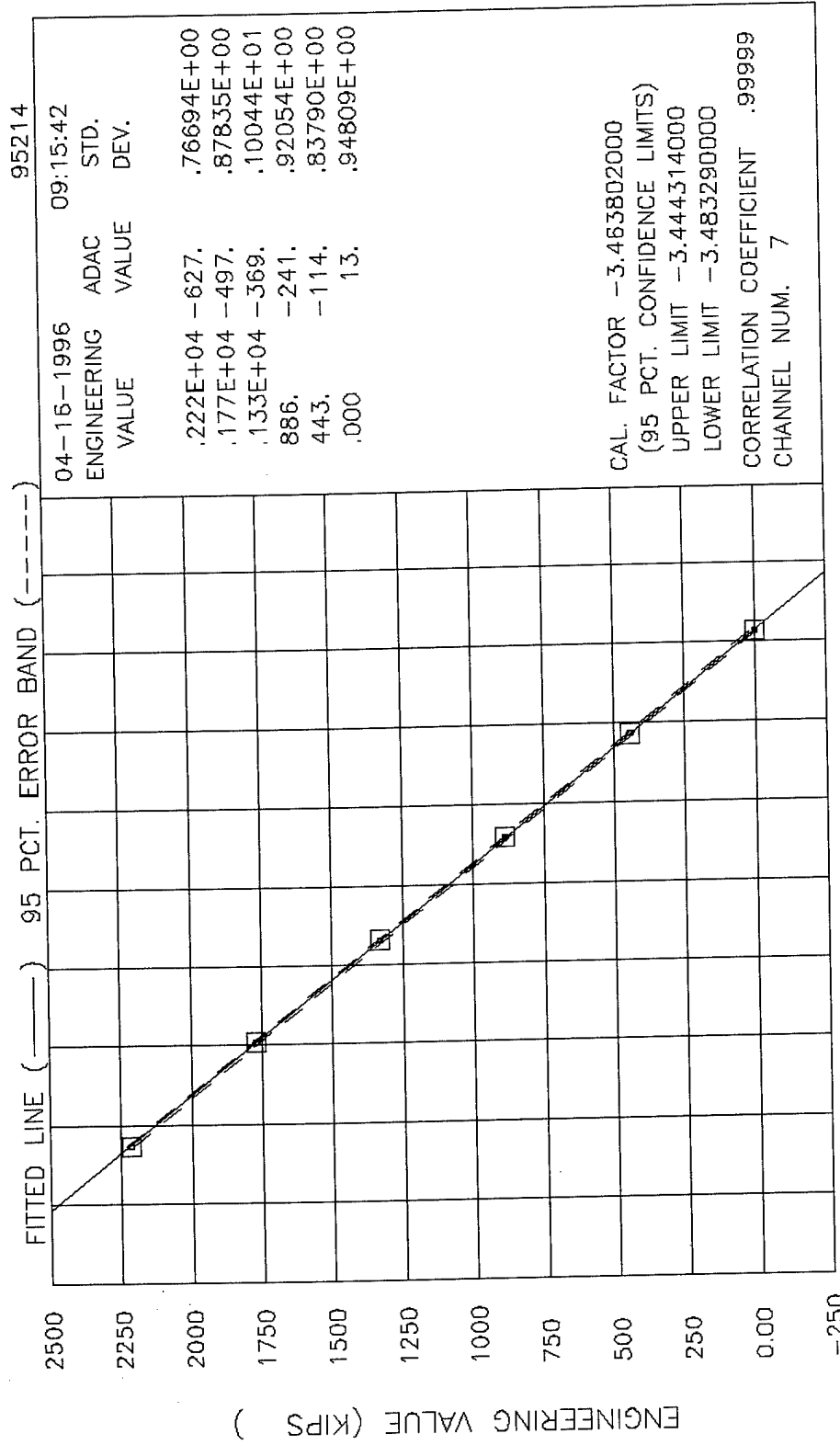
PLOT AND TABLE OF CALIBRATION POINTS FOR bt-1

-796.79 K/V



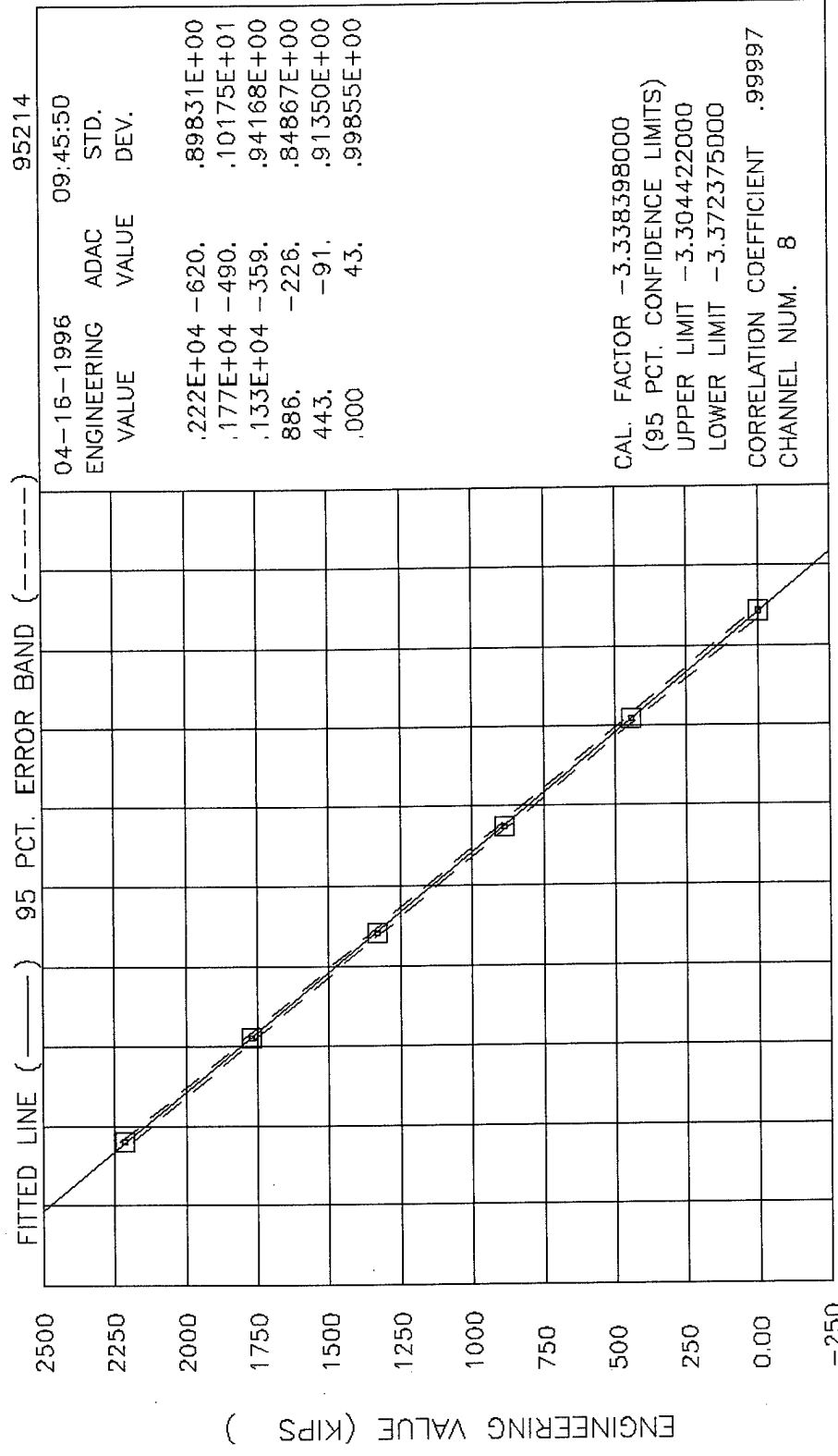
PLOT AND TABLE OF CALIBRATION POINTS FOR BT-2

85-8.37 K/V



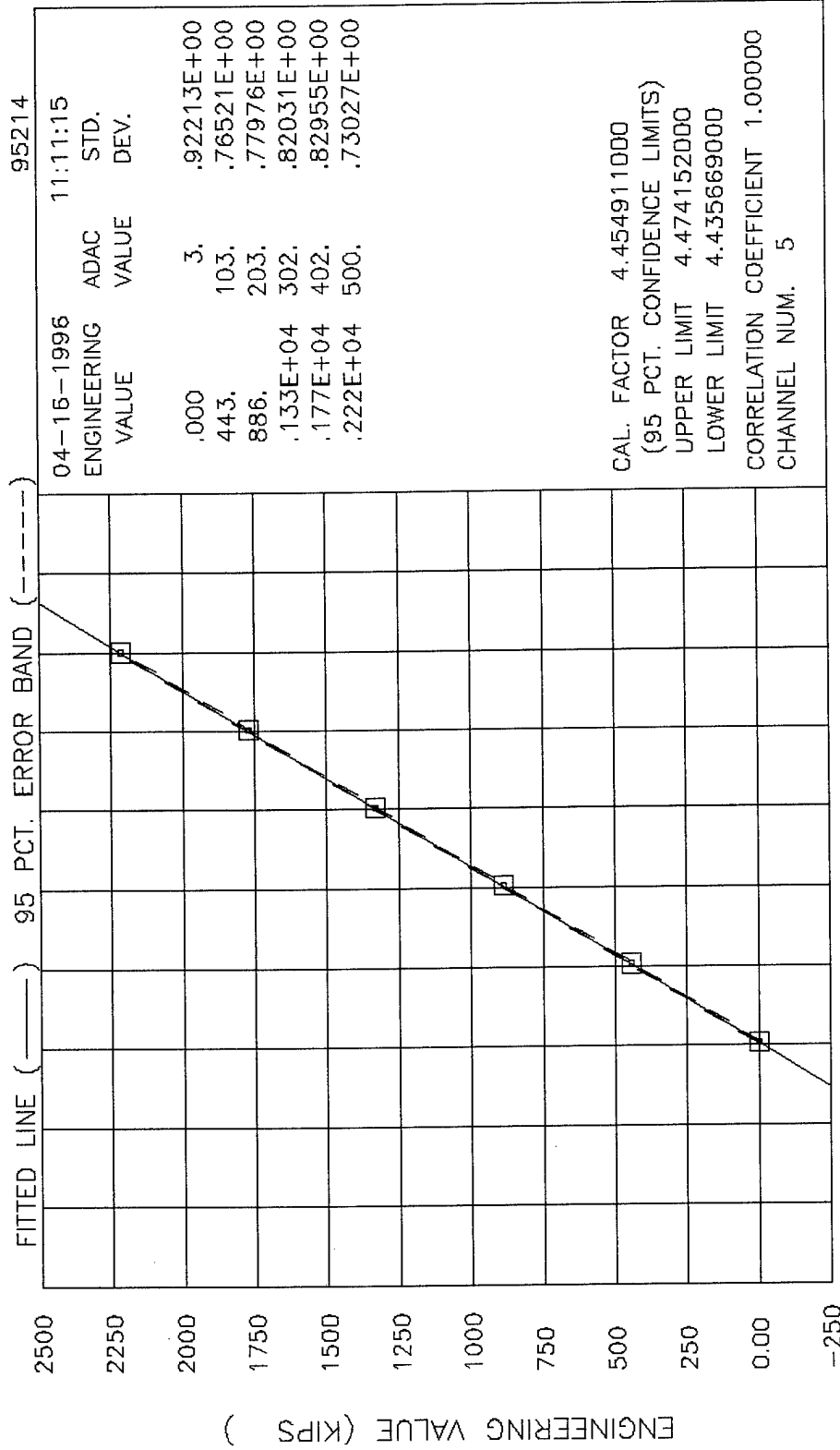
PLOT AND TABLE OF CALIBRATION POINTS FOR BT-3

-709.39 K/V



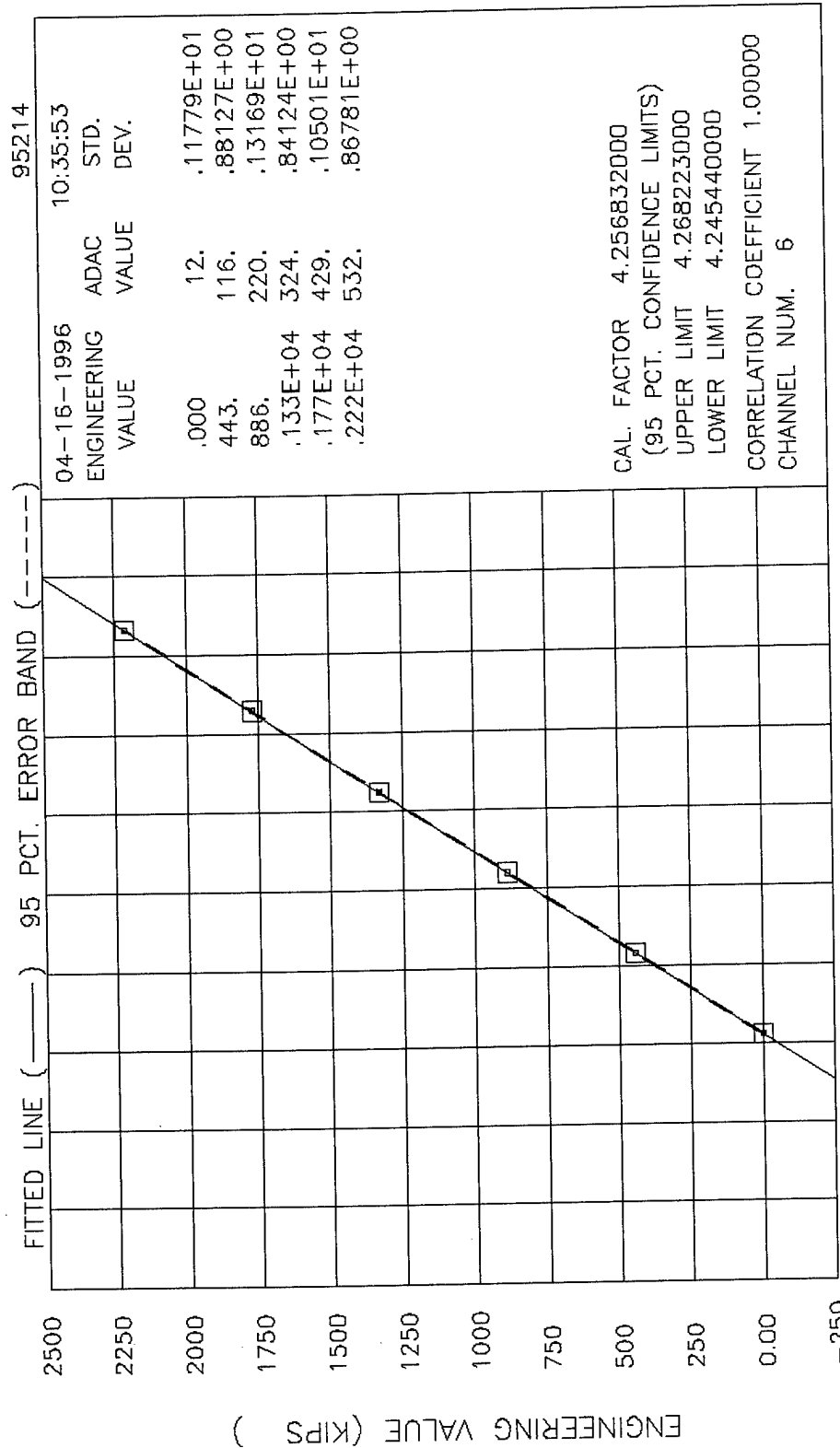
PLOT AND TABLE OF CALIBRATION POINTS FOR BT-4





PLOT AND TABLE OF CALIBRATION POINTS FOR BT-5

-912.37 KIPS



PLOT AND TABLE OF CALIBRATION POINTS FOR BT-6

871.7 K/V

**APPENDIX C**

**WAVE CALIBRATION DATA**

02-13-1996

14:35:03.38

Project: 95214  
Page 1 of 1

\* \* RANDOM WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 02-13-1996  
Test Time: 14:29:59

=====  
TEST: 8  
=====

Wave Height (sig): 2.74  
Heading: .0 deg.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

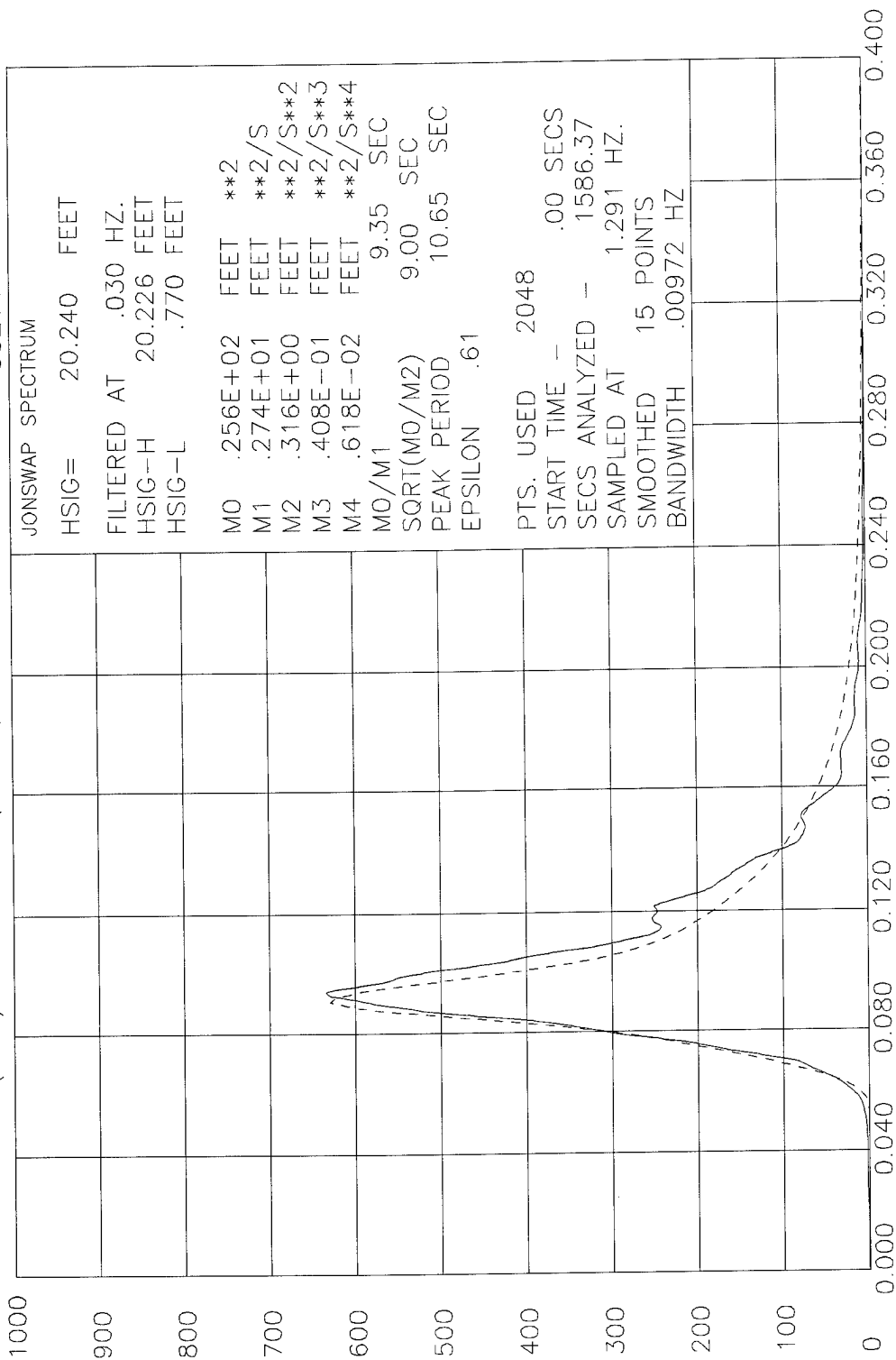
Start Time: .00 sec.  
Test Duration: 1626.65 sec.  
Total Duration: 1626.65 sec.  
Max. Samples / Chan: 4199.

---

VARI ABLE	UNITS	MAX	MIN	AVE	STDV	5.1 x STDV	4.0 x STDV
WAVSIG	VOLTS	.713	-.669	-.006	.183	.931	.730
WAVE-1	FEET	20.893	-15.249	.603	5.024	25.621	20.095
WAVE-2	FEET	26.118	-16.372	.165	5.592	28.518	22.367

ACTUAL(——) THEORETICAL(-----)

95214



FREQUENCY (HERTZ)

WAVE-1 SPECTRAL DENSITY PLOT FOR TEST NO. 8

SPECTRAL DENSITY ((FEET)<sup>2</sup> - SEC)

02-13-1996

15:14:23.86

Project: 95214  
Page 1 of 1

\* \* RANDOM WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 02-13-1996  
Test Time: 15:09:31

=====  
TEST: 11  
=====

Wave Height (sig): 39.00  
Heading: .0 deg.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

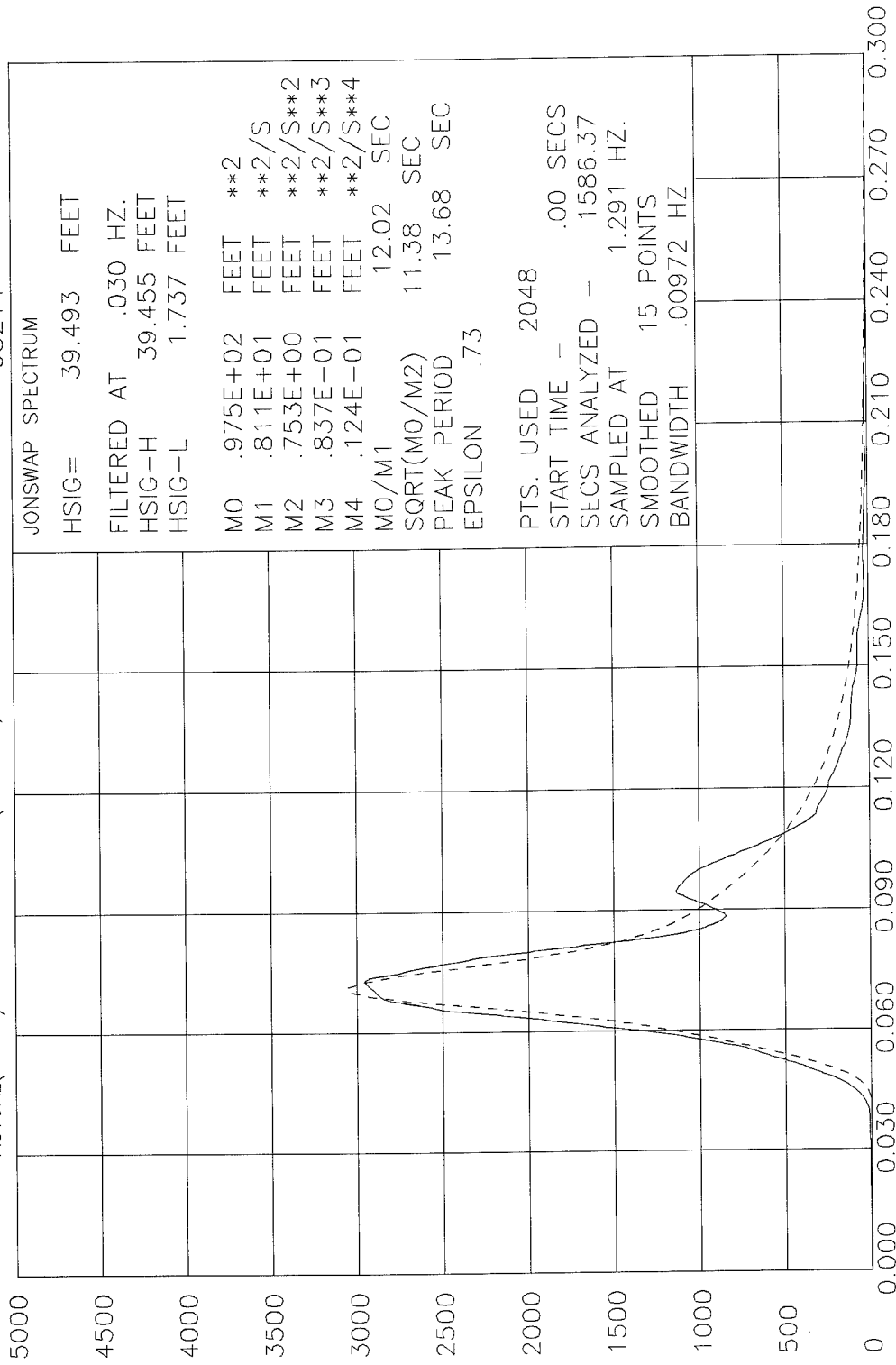
Start Time: .00 sec.  
Test Duration: 1626.65 sec.  
Total Duration: 1626.65 sec.  
Max. Samples / Chan: 4199.

---

VARI ABLE	UNITS	MAX	MIN	AVE	STDV	5.1 x STDV	4.0 x STDV
WAVSIG	VOLTS	1.245	-1.309	-.014	.429	2.186	1.714
WAVE-1	FEET	42.134	-24.013	.539	9.948	50.732	39.790
WAVE-2	FEET	39.753	-28.199	.125	11.439	58.341	45.758

ACTUAL(——) THEORETICAL(-----)

95214



FREQUENCY (HERTZ)

WAVE-1 SPECTRAL DENSITY PLOT FOR TEST NO. 11

02-13-1996

17:36:01.66

Project: 95214  
Page 1 of 1

\* \* RANDOM WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 02-13-1996  
Test Time: 17:31:14

=====  
TEST: 13  
=====

Wave Height (sig): 9.00  
Heading: .0 deg.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

Start Time: .00 sec.  
Test Duration: 1626.65 sec.  
Total Duration: 1626.65 sec.  
Max. Samples / Chan: 4199.

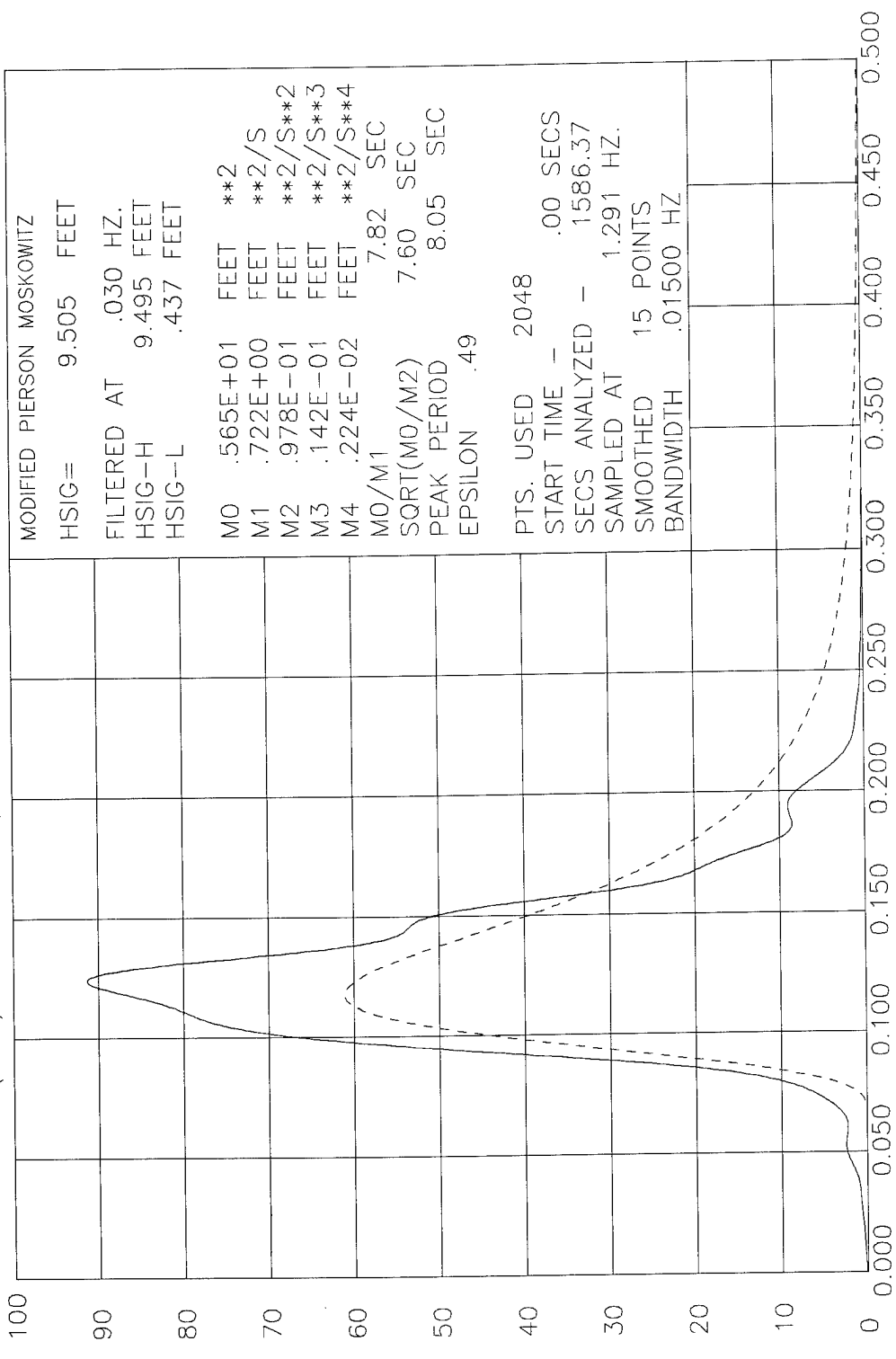
---

VARI ABLE	UNITS	MAX	MIN	AVE	STDV	5.1 x STDV	4.0 x STDV
WAVSIG	VOLTS	.356	-.303	-.025	.092	.470	.368
WAVE-1	FEET	7.971	-6.634	.370	2.380	12.137	9.519
WAVE-2	FEET	8.104	-6.625	.343	2.450	12.496	9.801

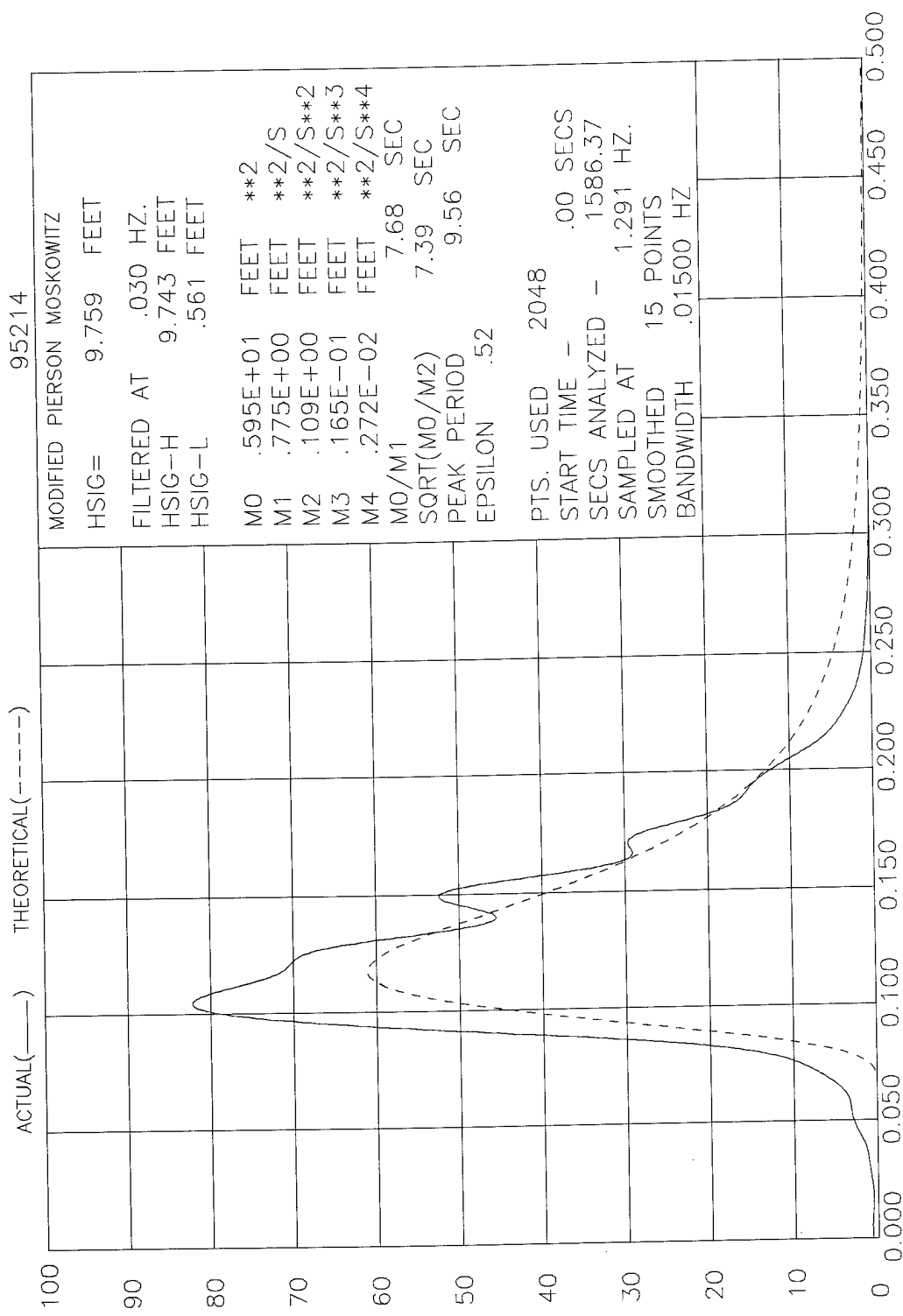


ACTUAL(——) THEORETICAL(-----)

95214



FREQUENCY (HERTZ)



SPECTRAL DENSITY ((FEET)<sup>2</sup> - SEC)

FREQUENCY (HERTZ)

02-13-1996

15:57:56.83

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 02-13-1996  
Test Time: 15:56:28

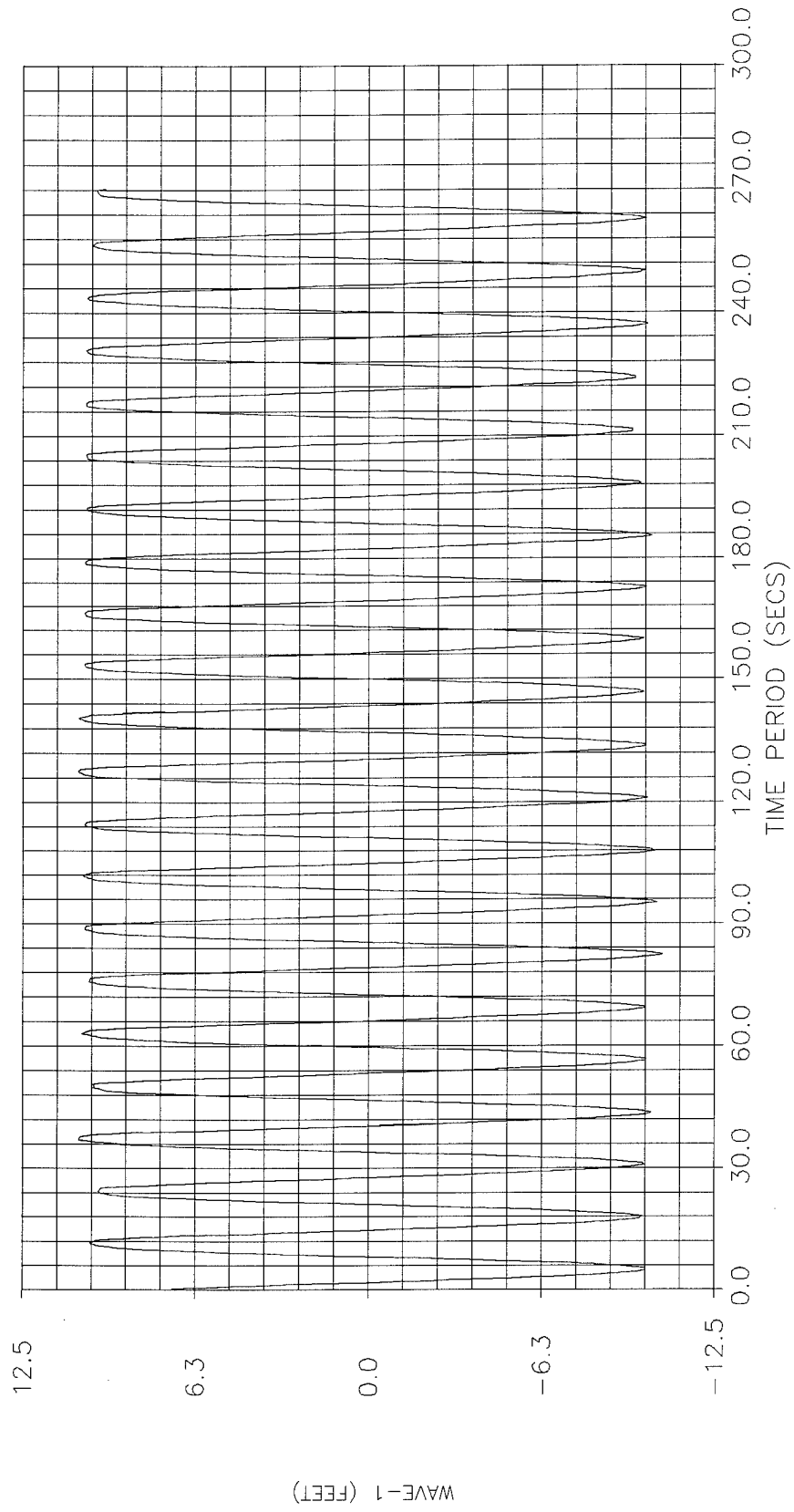
=====  
TEST: 22  
=====

Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 12.88 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 20  
Start Time: 8.13 sec.  
Test Duration: 257.55 sec.  
Total Duration: 271.11 sec.  
Max. Samples / Chan: 700.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.410	-.435	-.014	.827	.041	.097
WAVE-1	FEET	10.496	-10.595	.346	20.213	1.000	2.361
WAVE-2	FEET	11.444	-10.458	.209	20.503	1.014	2.395



TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 22

02-13-1996

16:36:09.26

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 02-13-1996  
Test Time: 16:34:37

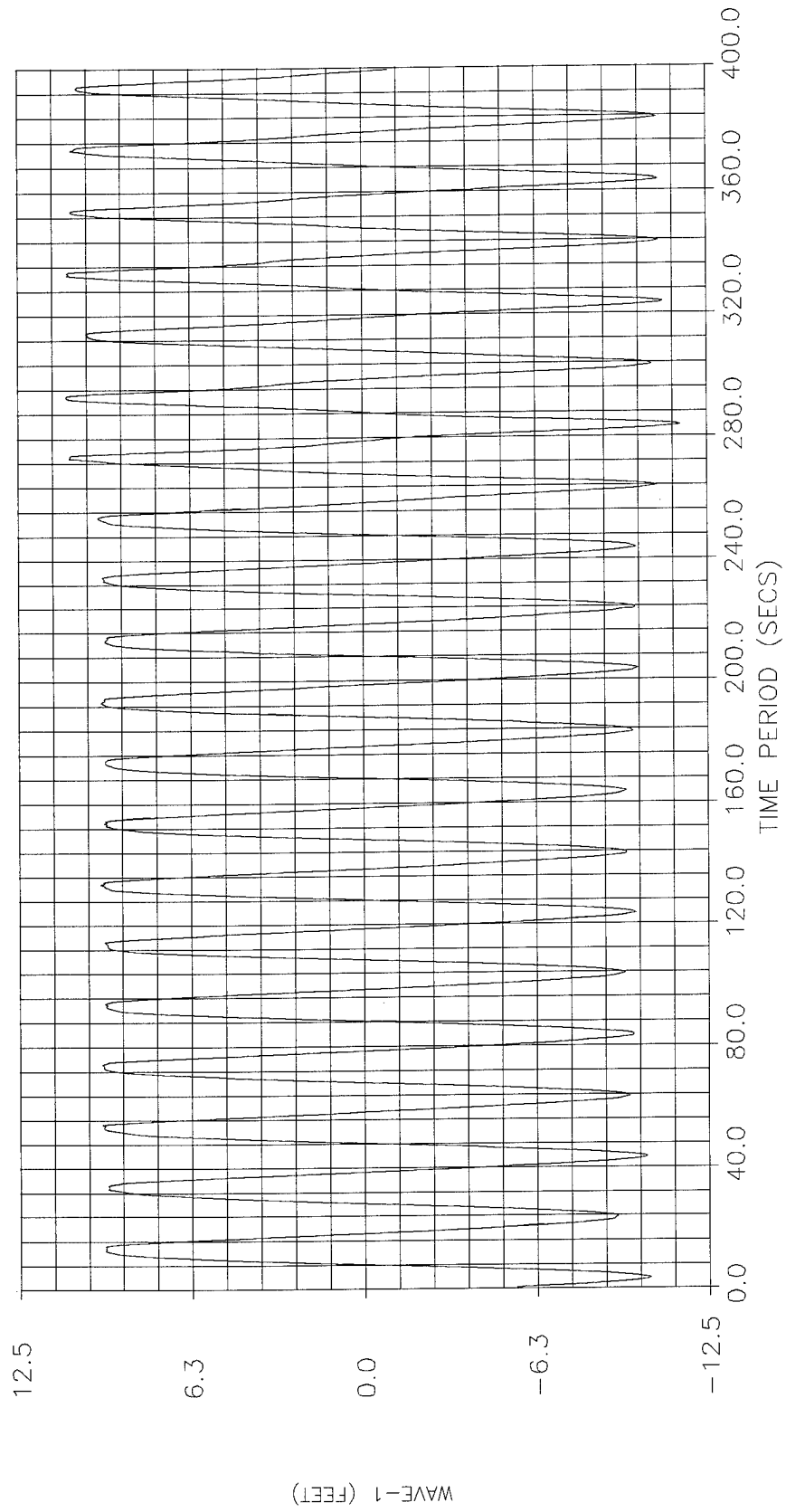
=====  
TEST: 24  
=====

Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 20.00 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 19  
Start Time: 8.13 sec.  
Test Duration: 379.94 sec.  
Total Duration: 402.79 sec.  
Max. Samples / Chan: 1040.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.454	-.483	-.013	.924	.046	.264
WAVE-1	FEET	10.744	-11.536	.335	19.908	1.000	5.692
WAVE-2	FEET	10.404	-10.623	.301	19.360	.972	5.536



TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 24

02-14-1996

16:12:42.95

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 02-13-1996  
Test Time: 16:38:45

=====  
TEST: 25  
=====

Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 8.00 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 20  
Start Time: 4.65 sec.  
Test Duration: 159.95 sec.  
Total Duration: 170.41 sec.  
Max. Samples / Chan: 440.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.195	-.230	-.015	.406	.031	.028
WAVE-1	FEET	7.526	-5.941	.704	13.016	1.000	.911
WAVE-2	FEET	6.790	-5.421	.421	11.000	.845	.770

04-15-1996

10:15:11.24

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 10:14:00

=====  
TEST: 205  
=====

(S02)

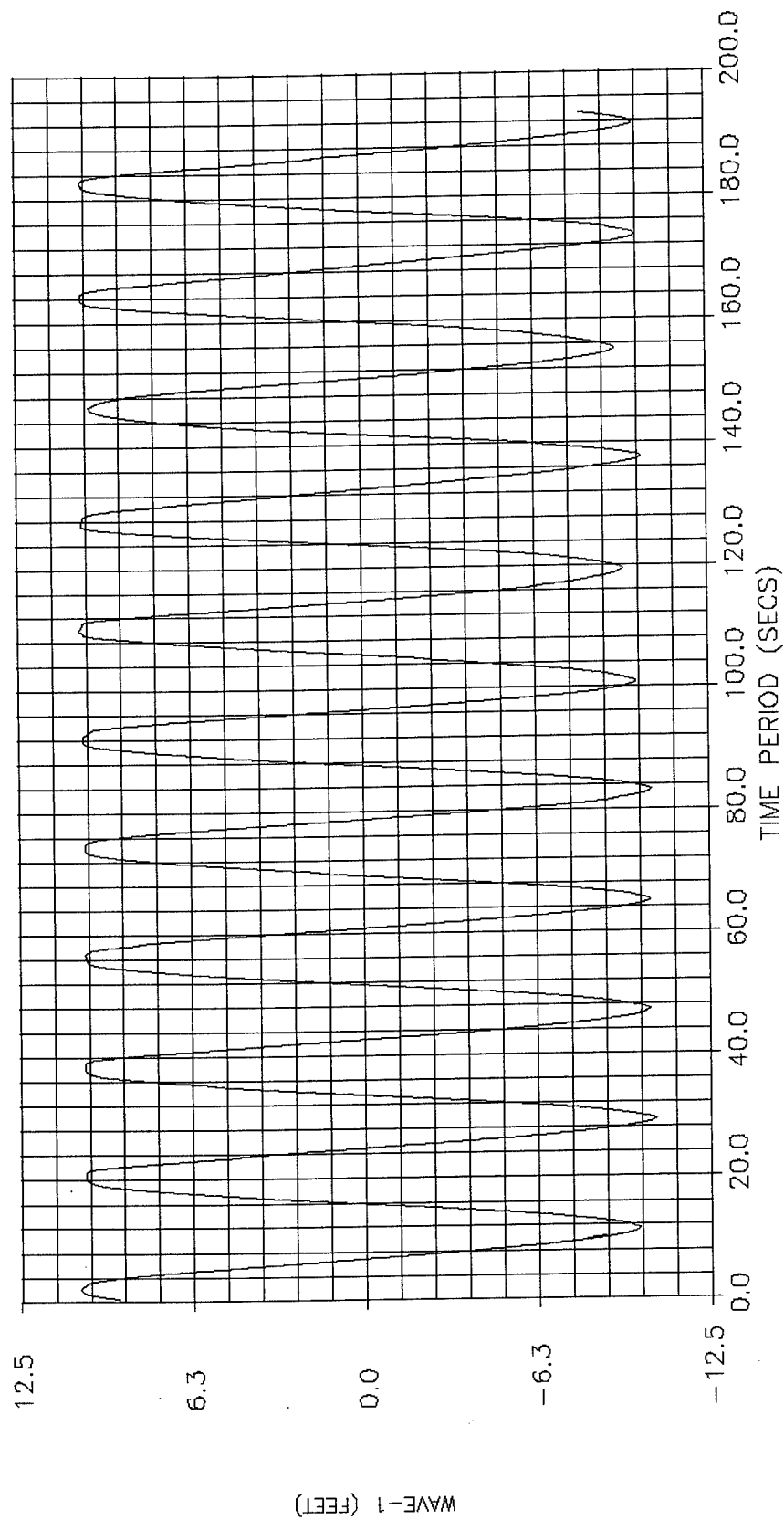
Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 17.99 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 9  
Start Time: 15.49 sec.  
Test Duration: 161.89 sec.  
Total Duration: 193.65 sec.  
Max. Samples / Chan: 500.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.542	-.566	-.009	1.086	.054	.249
STROKE	FEET	14.483	-13.794	.446	27.804	1.381	6.362
WAVE-1	FEET	10.254	-10.506	.255	20.131	1.000	4.606
WAVE-2	FEET	12.657	-11.869	.599	23.651	1.175	5.412





TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 205 502

04-15-1996

10:22:41.69

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 10:21:32

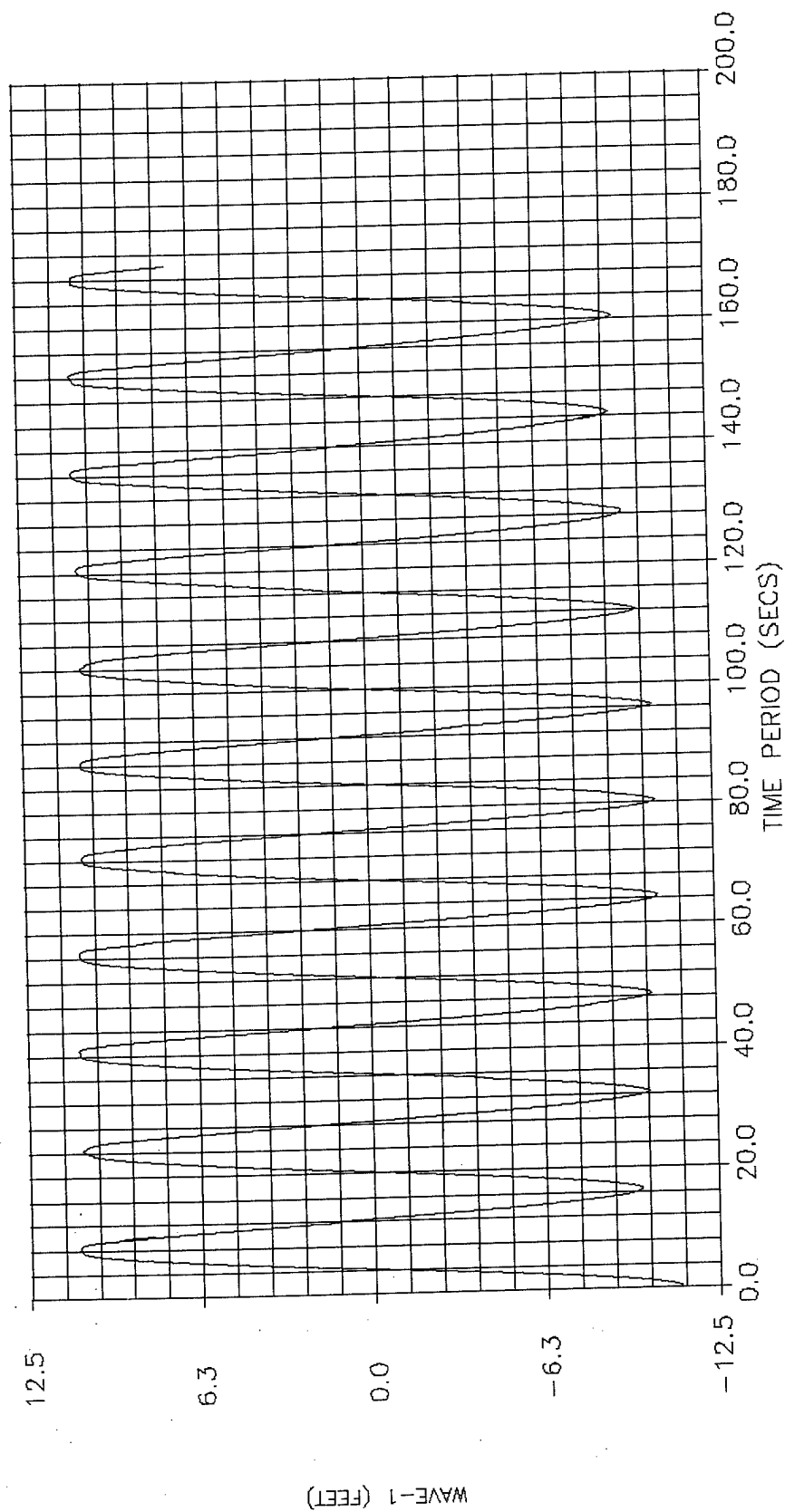
=====  
TEST: 504  
=====

Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 16.00 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 10  
Start Time: 3.87 sec.  
Test Duration: 159.95 sec.  
Total Duration: 170.41 sec.  
Max. Samples / Chan: 441.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.532	-.542	-.008	1.054	.052	.188
STROKE	FEET	13.219	-14.253	-.094	25.553	1.255	4.571
WAVE-1	FEET	10.708	-10.456	.563	20.361	1.000	3.642
WAVE-2	FEET	13.020	-11.809	.713	24.145	1.186	4.319



TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 504

04-15-1996

10:30:18.78

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 10:29:10

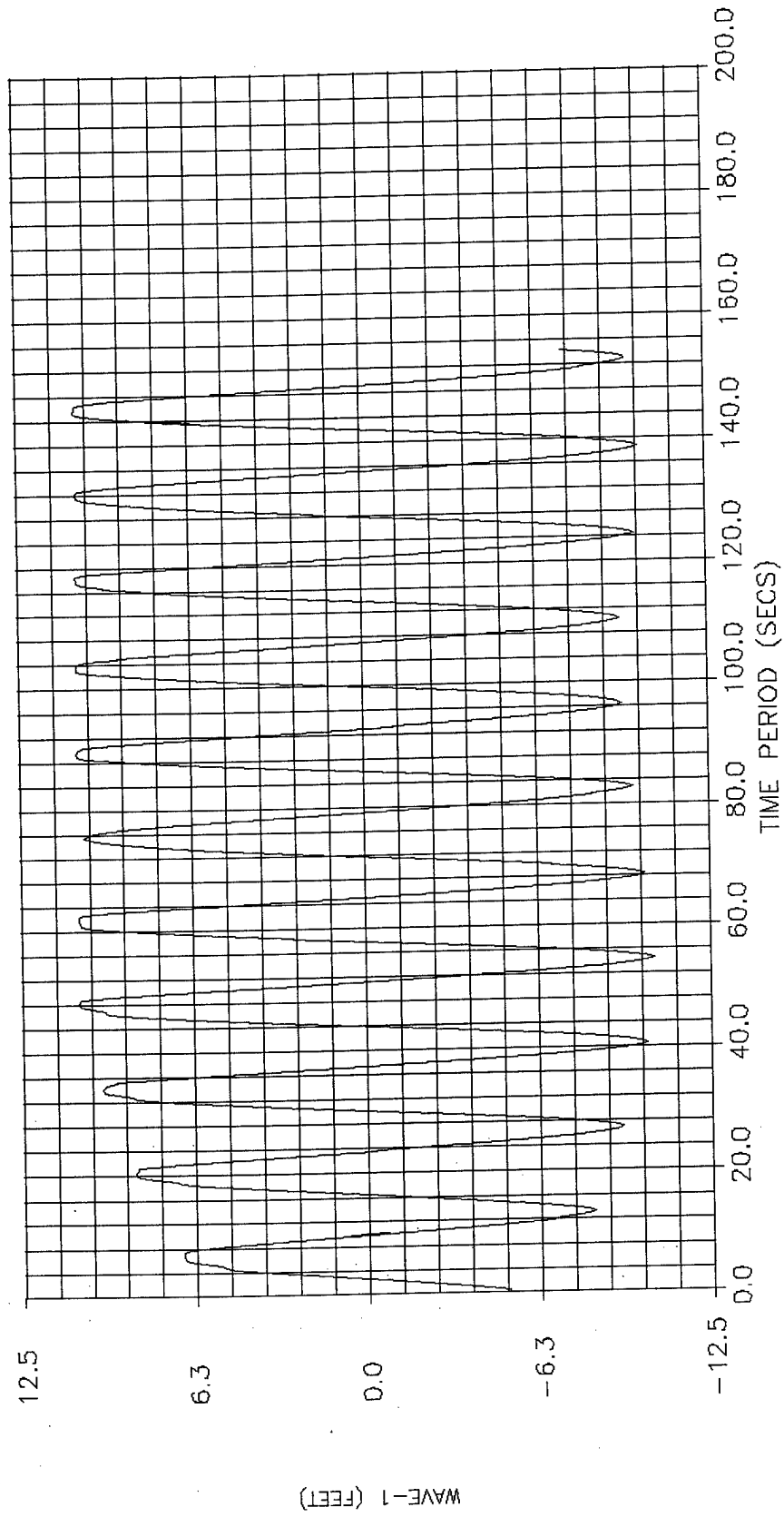
=====  
TEST: 506  
=====

Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 13.94 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 10  
Start Time: 2.32 sec.  
Test Duration: 139.43 sec.  
Total Duration: 154.92 sec.  
Max. Samples / Chan: 401.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.454	-.474	-.011	.909	.047	.130
STROKE	FEET	10.805	-11.150	-.127	20.828	1.074	2.973
WAVE-1	FEET	10.456	-10.456	.449	19.391	1.000	2.767
WAVE-2	FEET	10.840	-9.992	.632	19.609	1.011	2.798



TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 506

04-15-1996

10:42:29.56

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 10:41:12

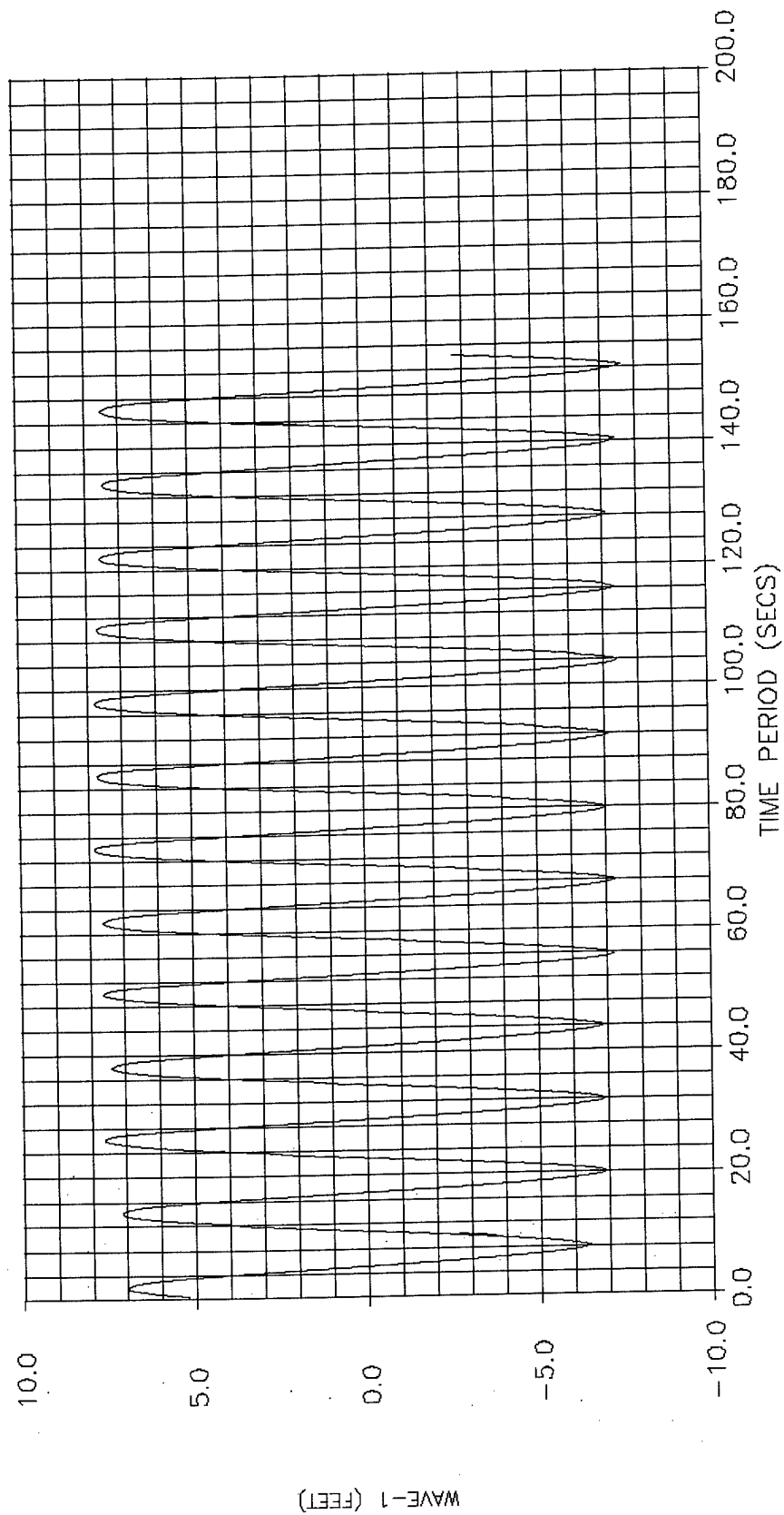
=====  
TEST: 508  
=====

Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 11.97 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 12  
Start Time: 10.84 sec.  
Test Duration: 143.69 sec.  
Total Duration: 154.92 sec.  
Max. Samples / Chan: 399.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.313	-.327	-.010	.623	.042	.086
STROKE	FEET	6.667	-8.391	-.221	13.171	.893	1.823
WAVE-1	FEET	7.829	-7.577	.459	14.749	1.000	2.041
WAVE-2	FEET	8.842	-7.388	.802	15.977	1.083	2.211



TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 508

04-15-1996

10:51:19.26

Project: 95214  
Page 1 of 1

\* \* REGULAR WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 10:49:57

=====  
TEST: 510  
=====

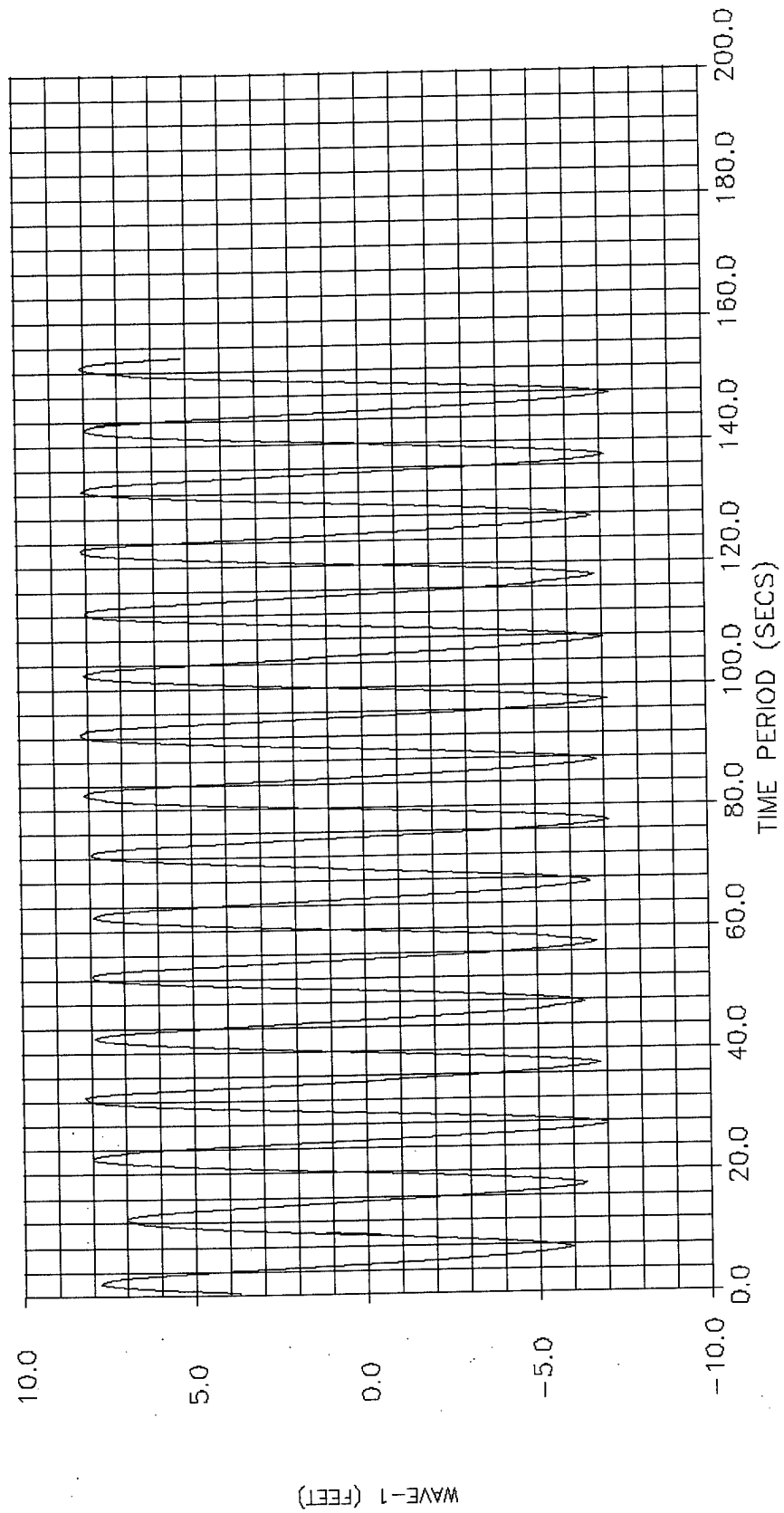
Base Channel: WAVE-1  
Heading: .0 deg.  
Period: 10.01 sec.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.

No. of Cycles: 14  
Start Time: 9.68 sec.  
Test Duration: 140.20 sec.  
Total Duration: 154.92 sec.  
Max. Samples / Chan: 401.

---

VARI ABLE	UNITS	MAX	MIN	AVE	AVG P-P	RAO P-P/WH	RAO AMP/WS
WAVSIG	VOLTS	.259	-.283	-.009	.518	.035	.050
STROKE	FEET	5.977	-7.012	-.299	11.101	.750	1.071
WAVE-1	FEET	8.183	-7.274	.718	14.792	1.000	1.428
WAVE-2	FEET	7.994	-7.146	.422	14.296	.966	1.380





TIME HISTORY PLOT FROM PROJECT 95214 ... TEST 510

04-15-1996

11:00:28.79

Project: 95214  
Page 1 of 1

\* \* RANDOM WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 10:55:39

=====  
TEST: 511  
=====

Wave Height (sig): 39.00  
Heading: .0 deg.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.  
JONSWAP

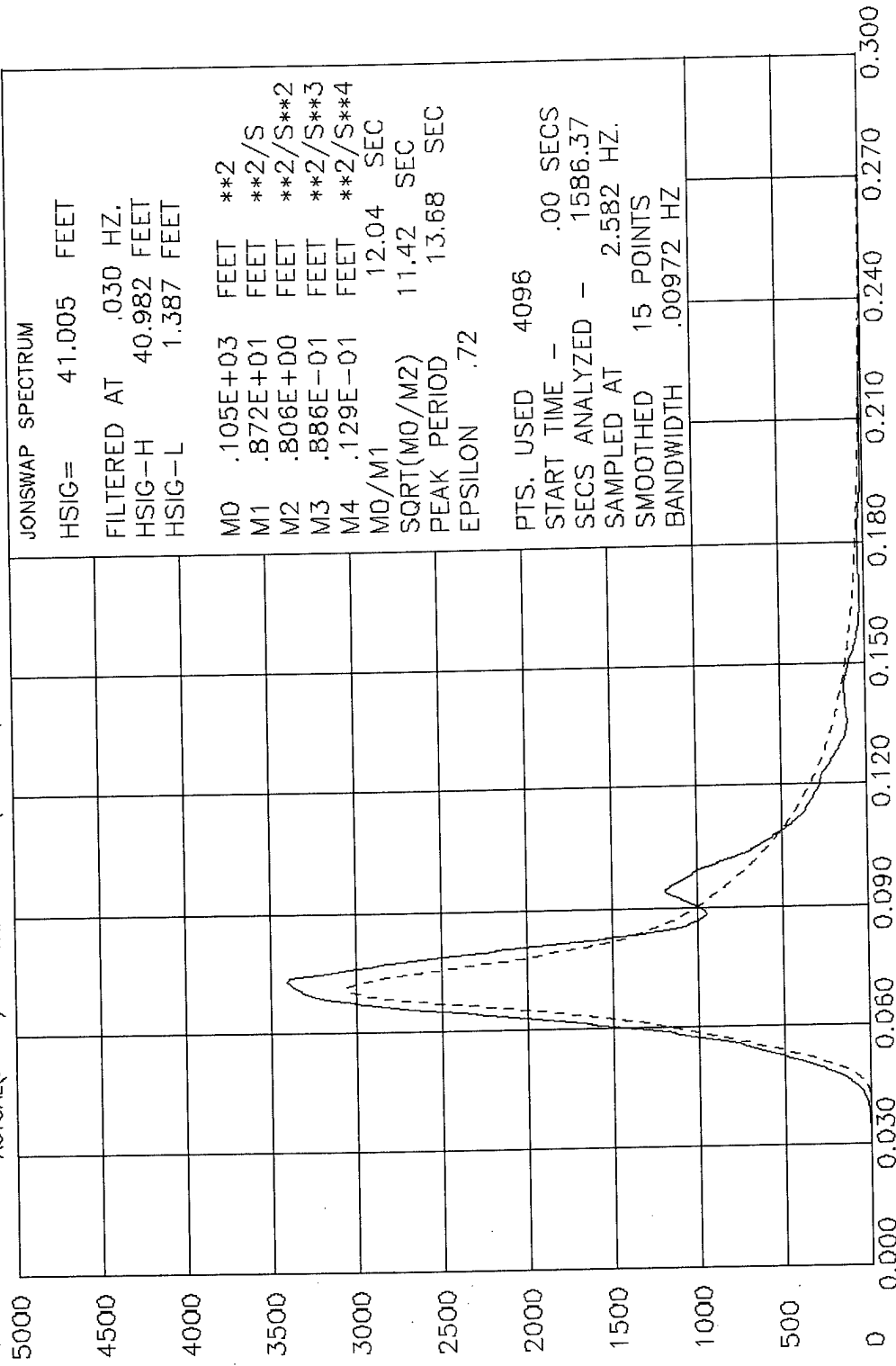
Start Time: .00 sec.  
Test Duration: 1587.92 sec.  
Total Duration: 1587.92 sec.  
Max. Samples / Chan: 4098.

---

VARI ABLE	UNITS	MAX	MIN	AVE	STDV	5.1 x STDV	4.0 x STDV
WAVSIG	VOLTS	1.284	-1.245	-.011	.425	2.167	1.699
STROKE	FEET	29.311	-30.461	-.007	10.681	54.475	42.726
WAVE-1	FEET	34.347	-23.993	.826	10.250	52.274	40.999
WAVE-2	FEET	33.852	-28.038	.489	10.794	55.047	43.174

ACTUAL(——) THEORETICAL(-----)

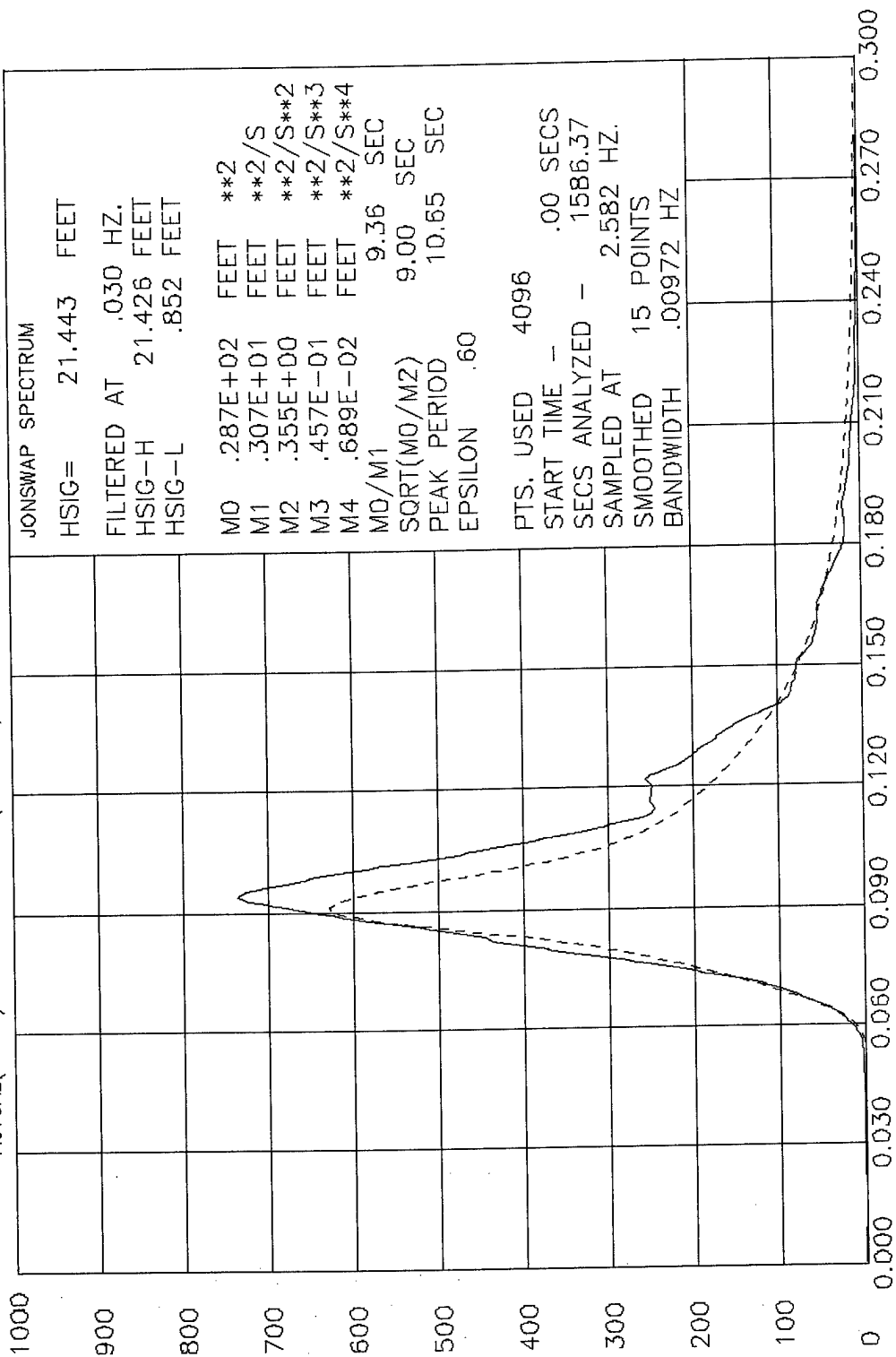
95214



FREQUENCY (HERTZ)

ACTUAL(——) THEORETICAL(-----)

95214



FREQUENCY (HERTZ)

WAVE-1 SPECTRAL DENSITY PLOT FOR TEST NO. 512

04-15-1996

13:23:21.34

Project: 95214  
Page 1 of 1

\* \* RANDOM WAVE \* \*  
\* \* \* STATISTICS \* \* \*

Test Date: 04-15-1996  
Test Time: 13:16:45

=====  
TEST: 512  
=====

Wave Height (sig): 20.00  
Heading: .0 deg.  
Model Scale: 60.000  
Max. Sample Rate: 20 hz.  
JONSWAP

Start Time: .00 sec.  
Test Duration: 1587.92 sec.  
Total Duration: 1587.92 sec.  
Max. Samples / Chan: 4099.

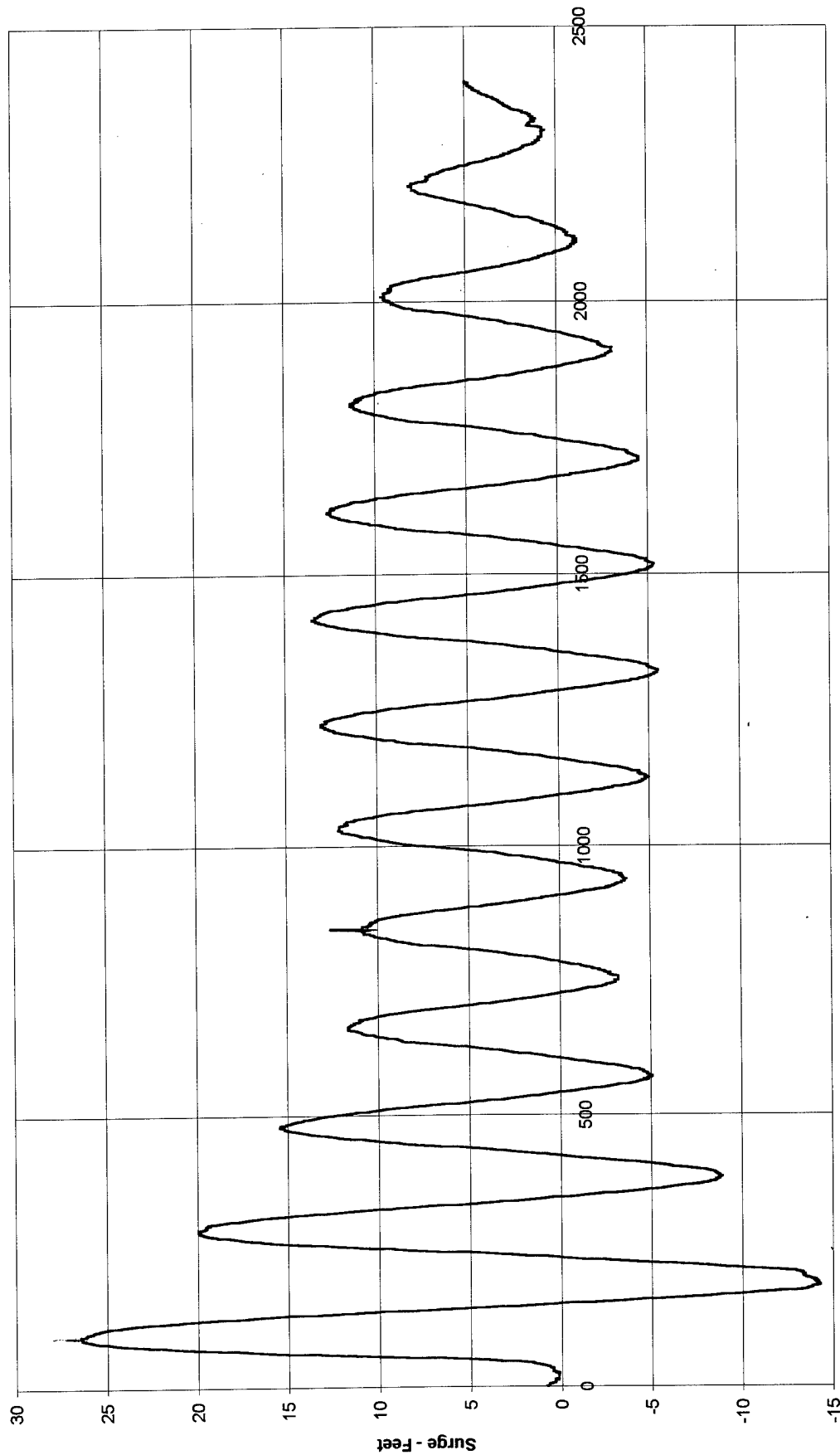
---

VARI ABLE	UNITS	MAX	MIN	AVE	STDV	5.1 x STDV	4.0 x STDV
WAVSIG	VOLT	.693	-.635	-.006	.182	.929	.728
STROKE	FEET	16.552	-15.173	-1.167	4.515	23.028	18.061
WAVE-1	FEET	20.305	-17.729	.626	5.361	27.341	21.444
WAVE-2	FEET	22.528	-20.226	.399	5.447	27.779	21.787

## **APPENDIX D**

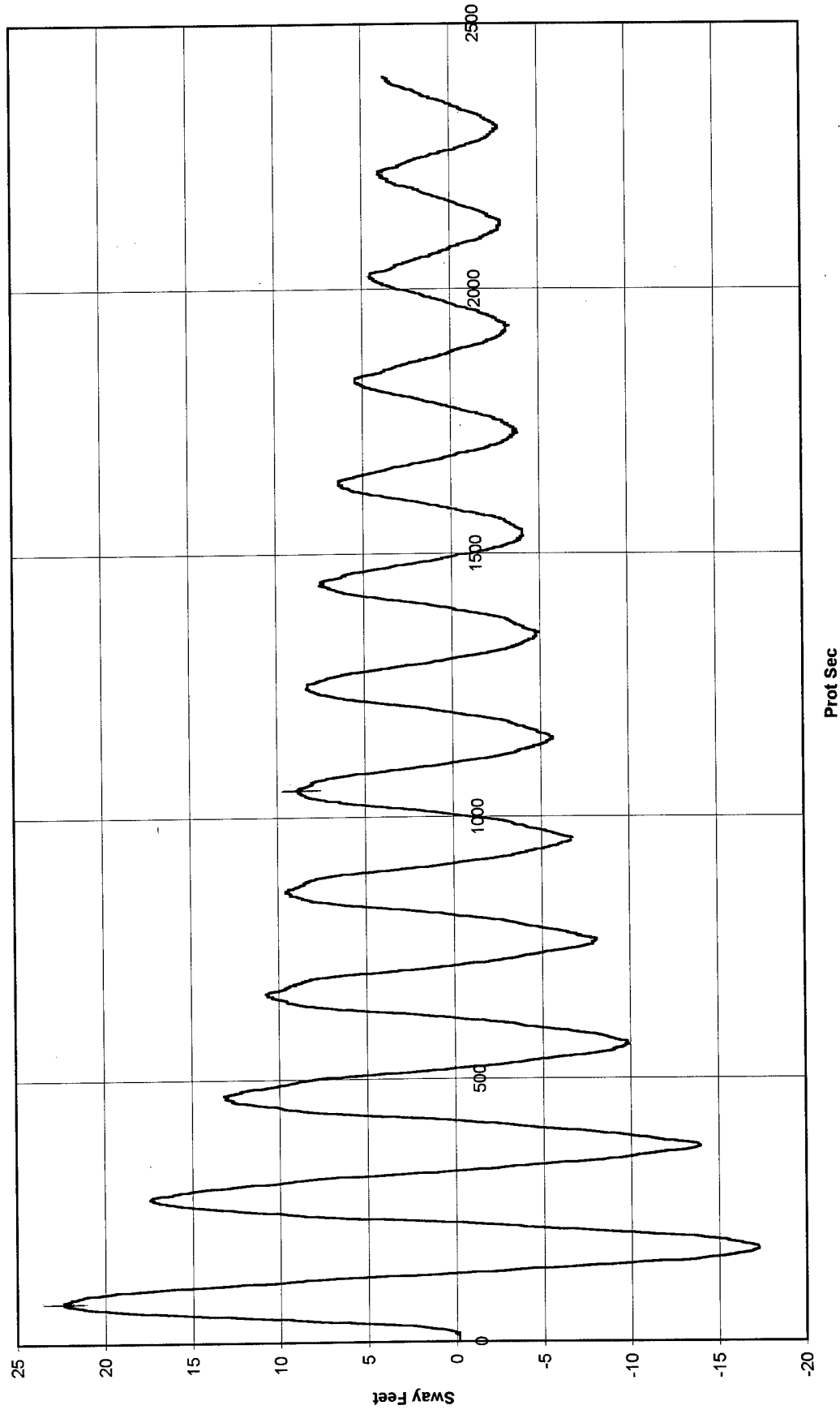
### **NATURAL PERIOD TEST TIME HISTORY PLOTS**

102 - Surge



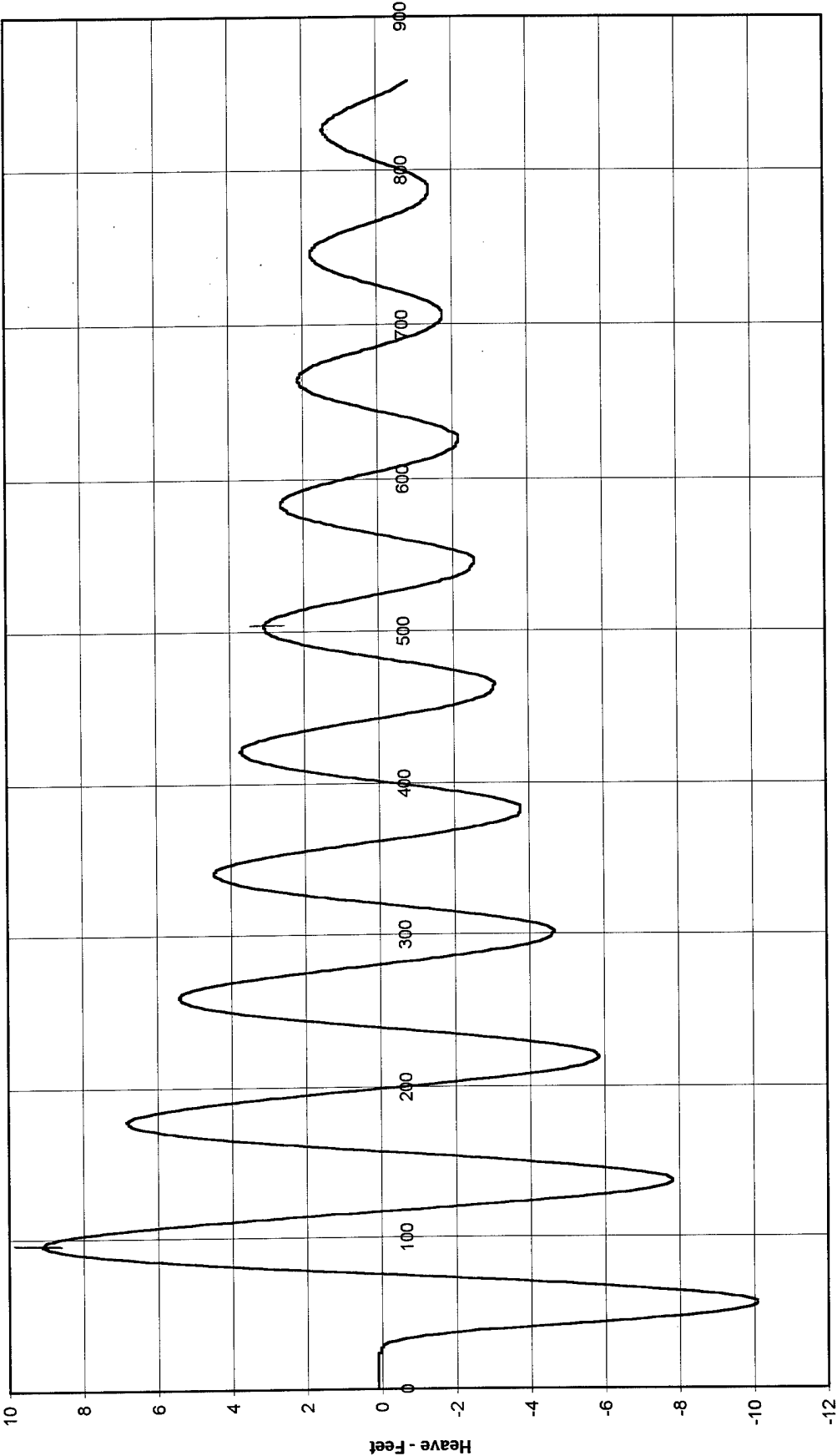
Prototype Seconds

103 - Sway



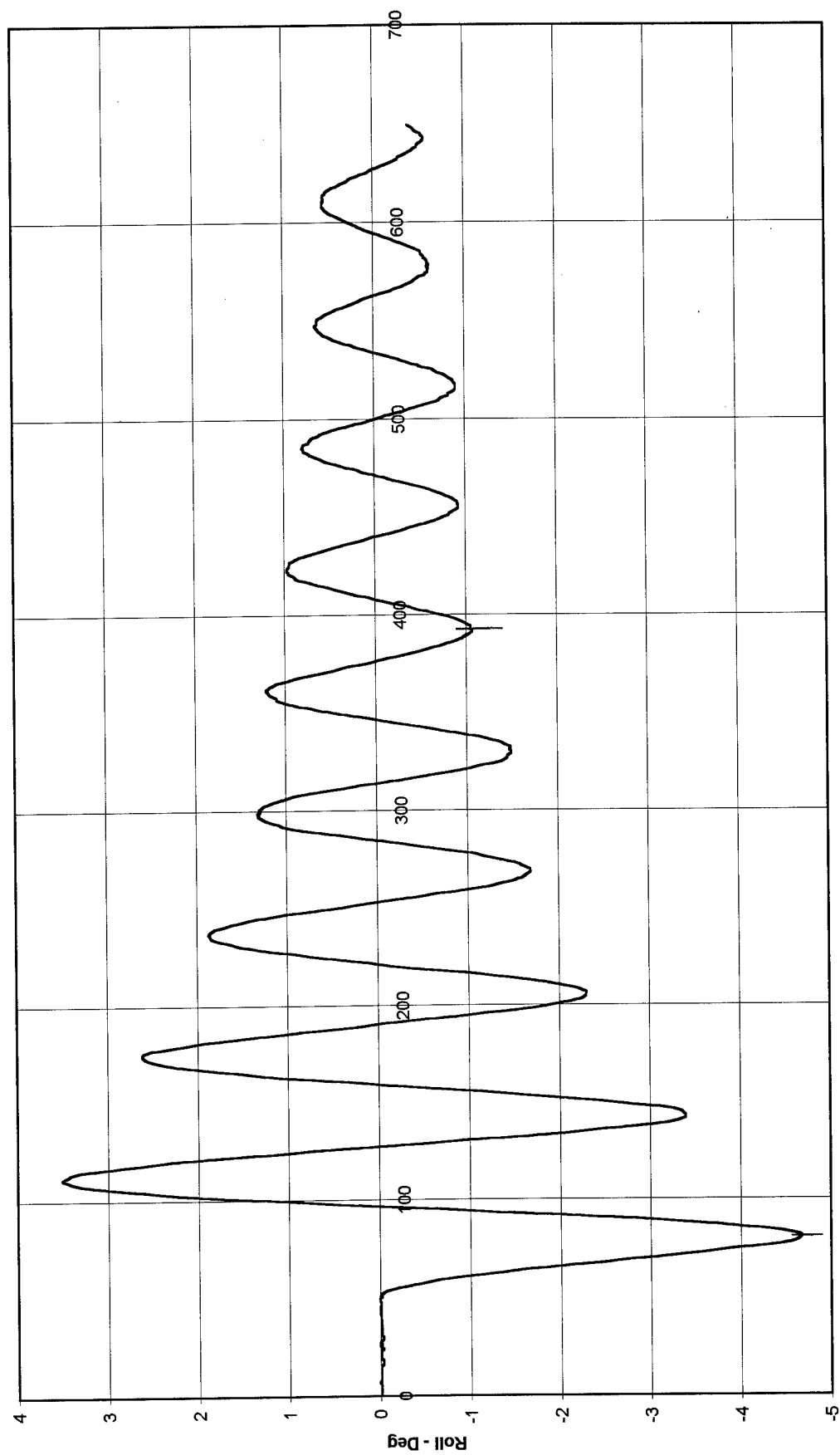


104 - Heave



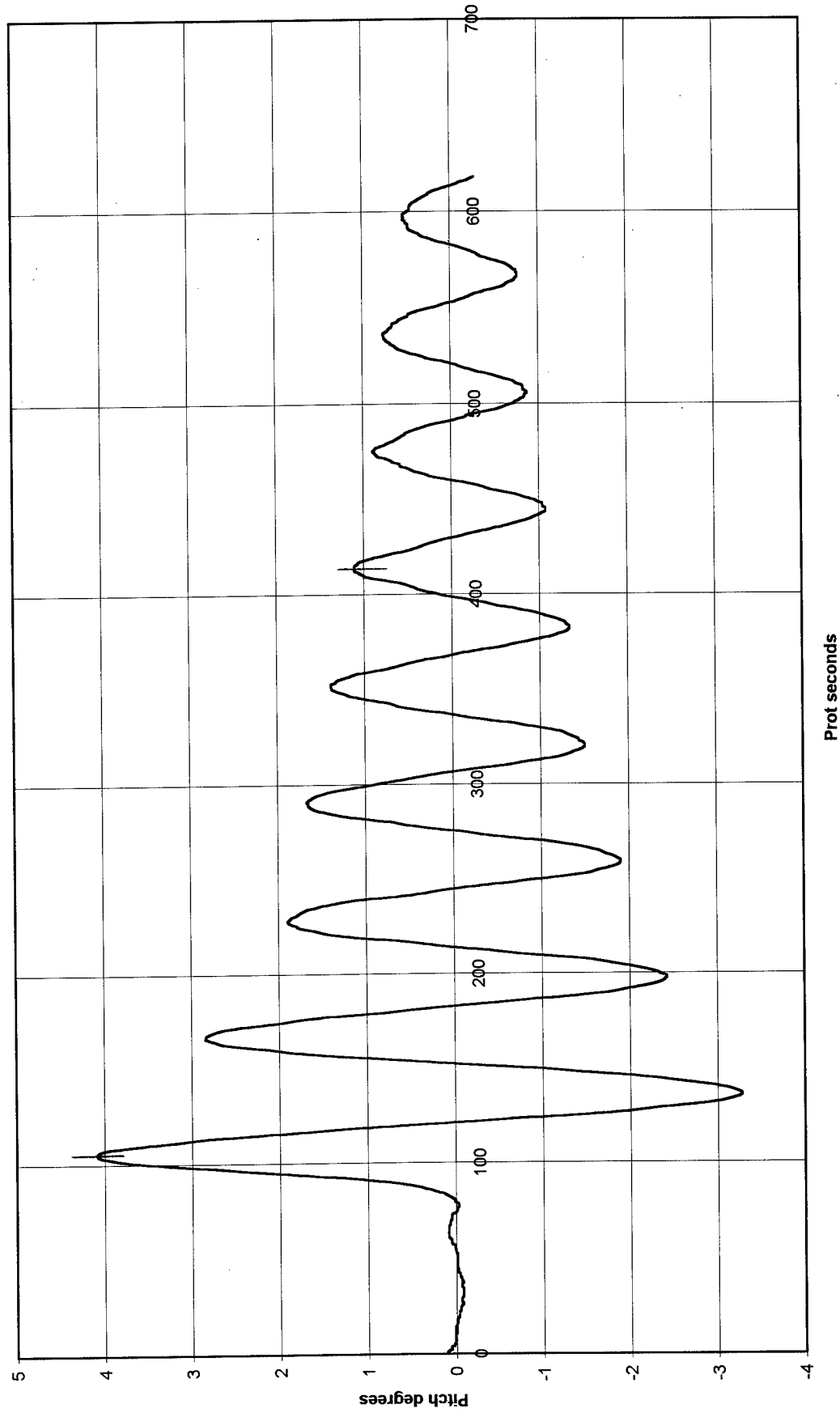
Prot Sec

105 - Roll

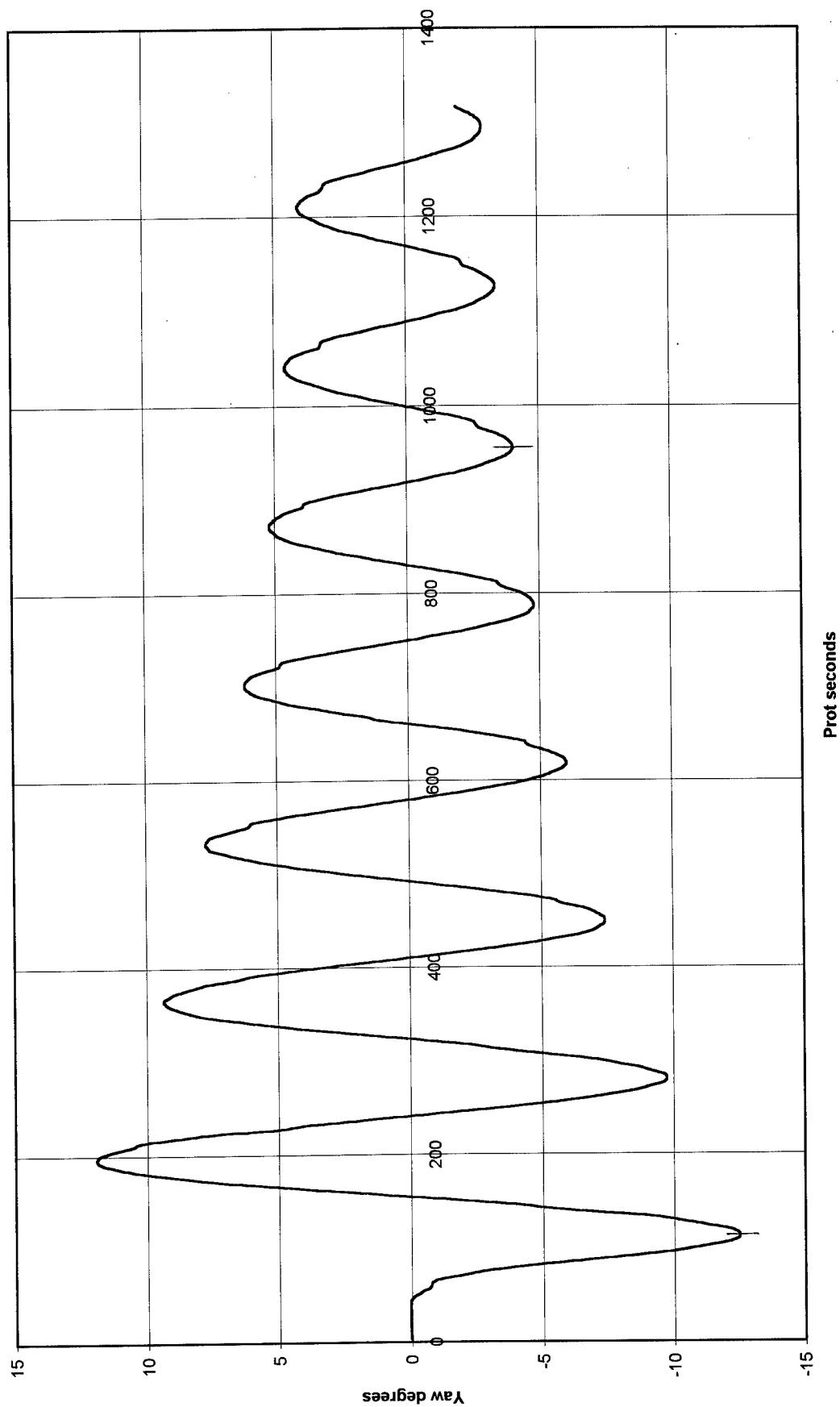


Prot - Sec

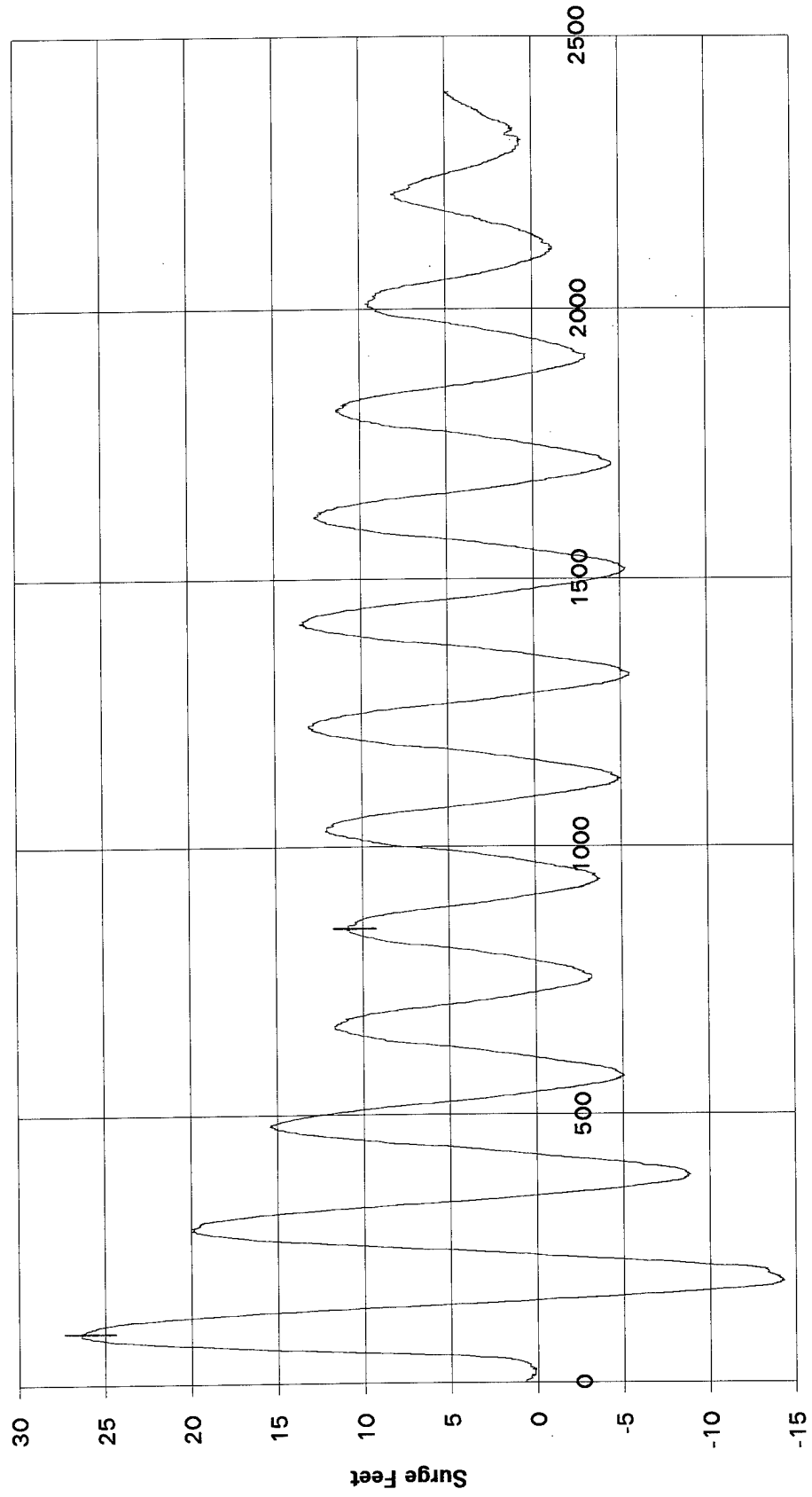
106 - Pitch



107 - Yaw

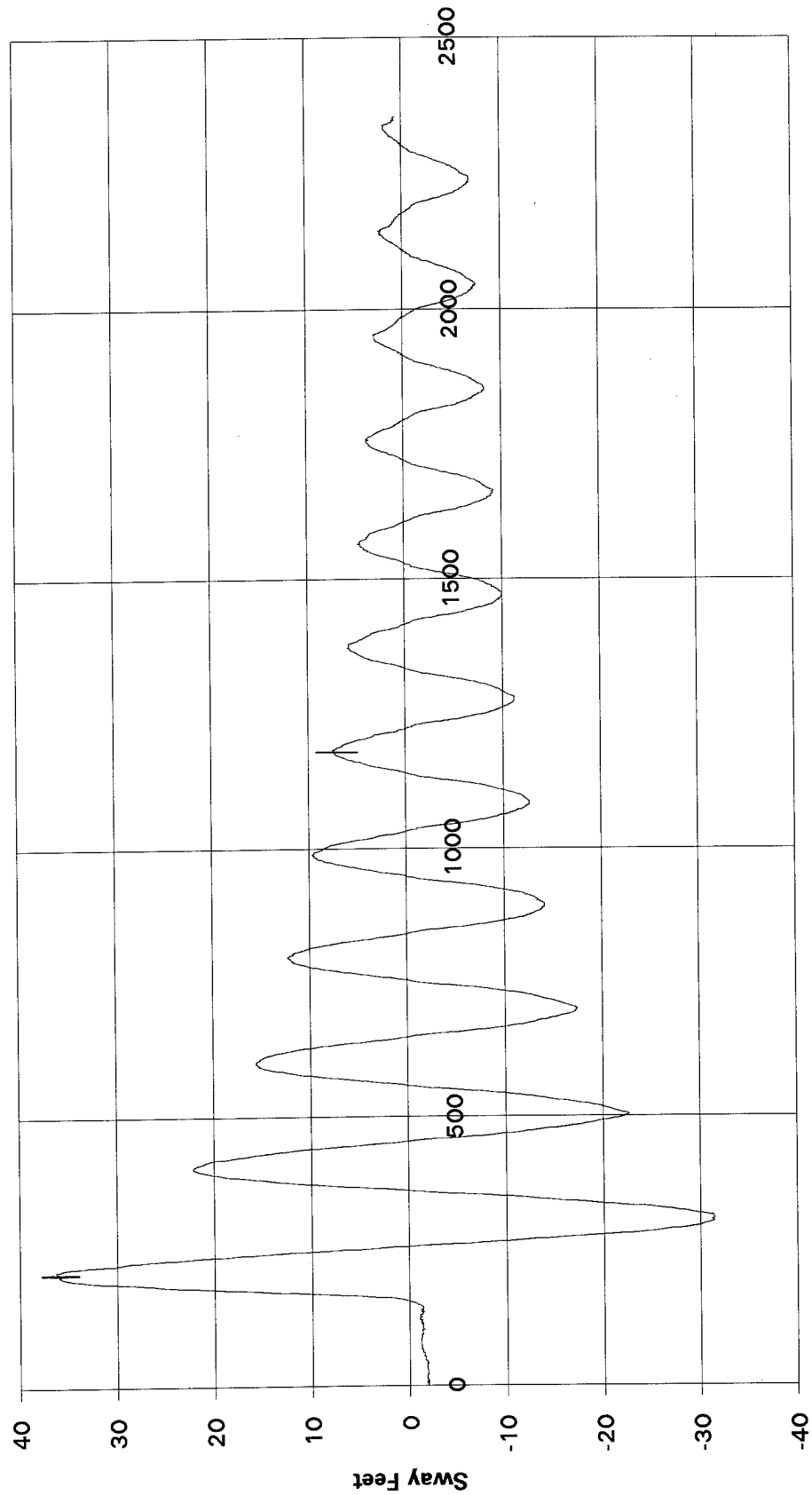


202 - Surge



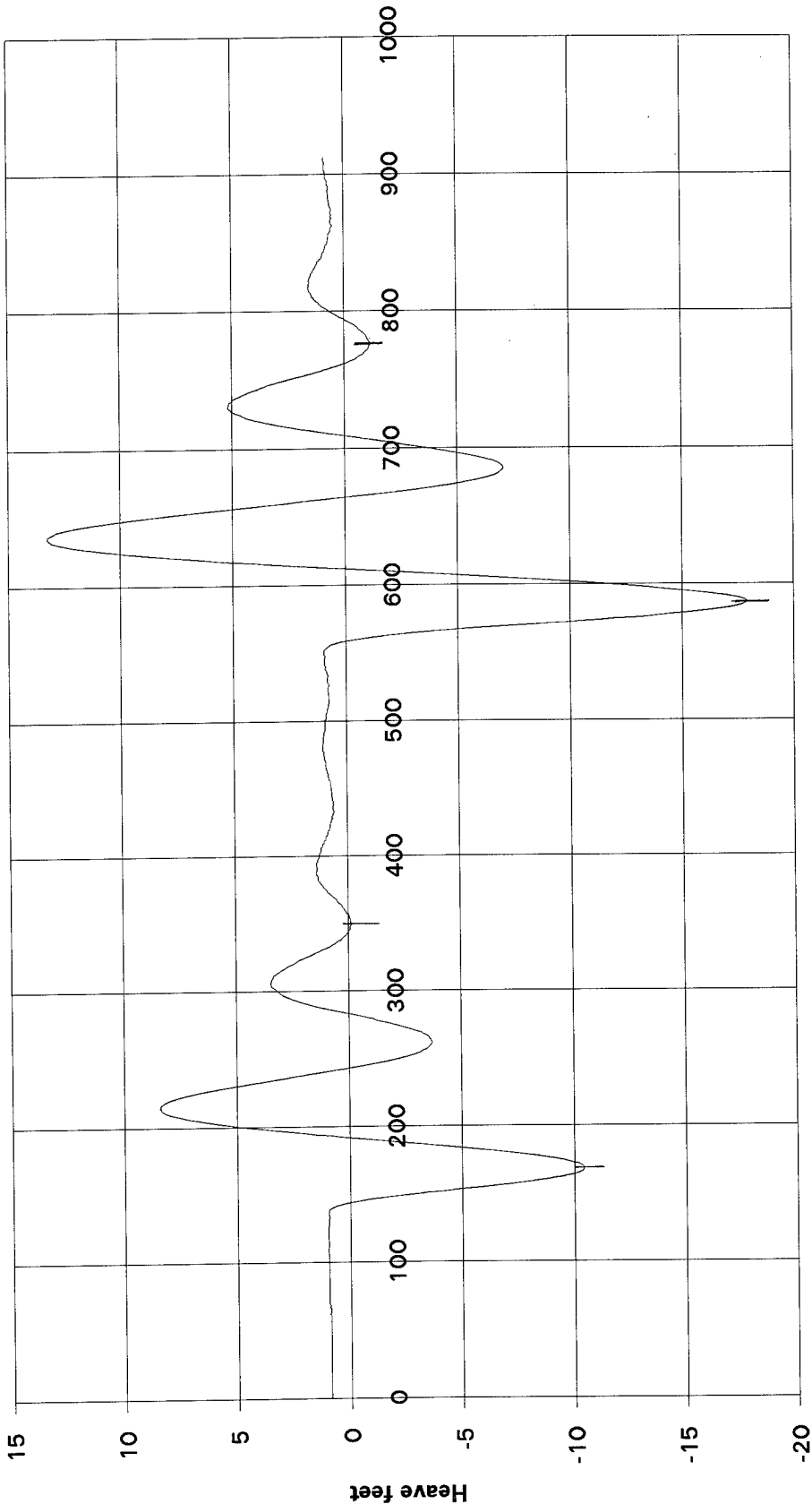
Proto seconds

203 - Sway



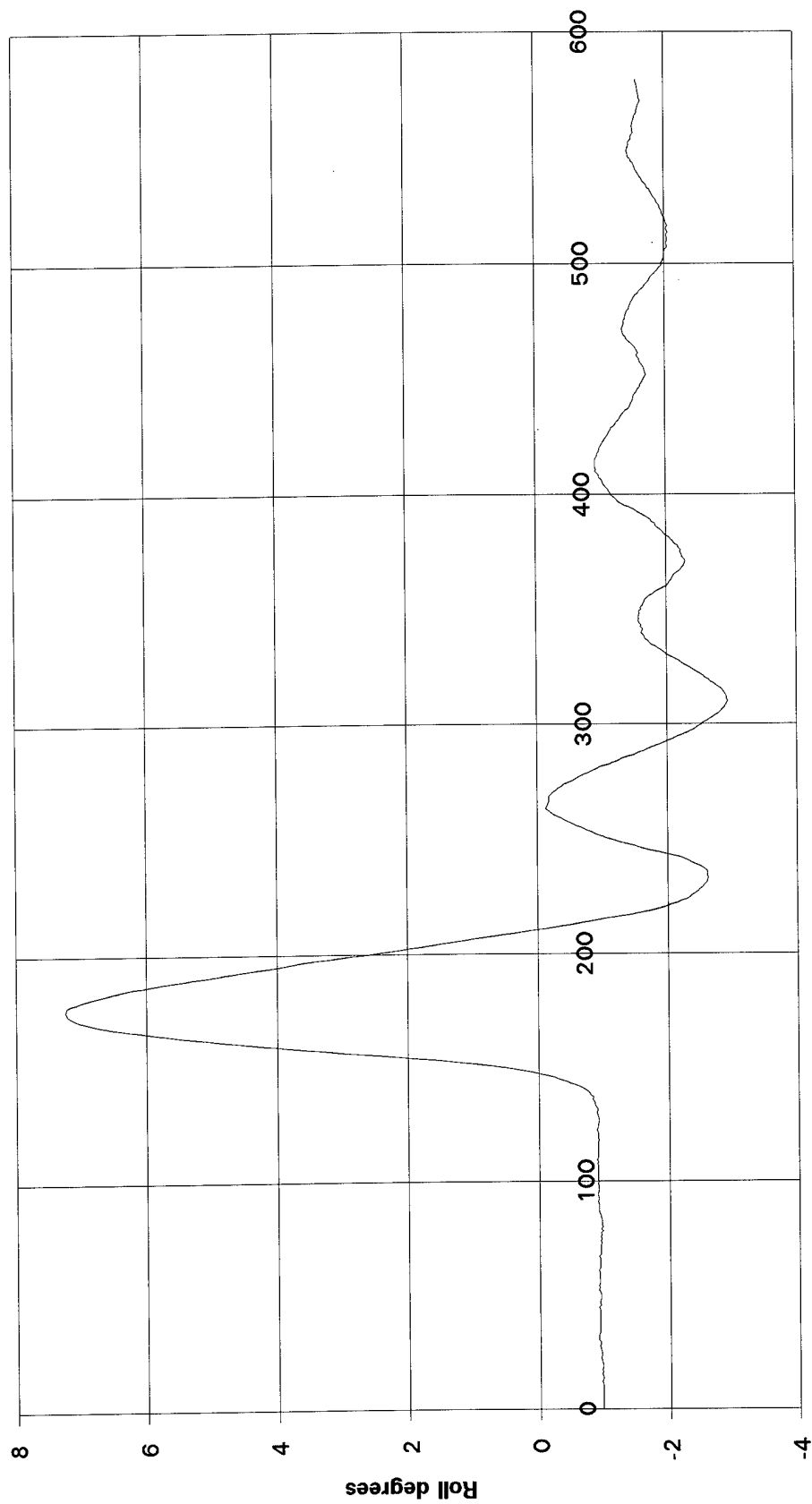
Prototype seconds

204 - Heave



Proto seconds

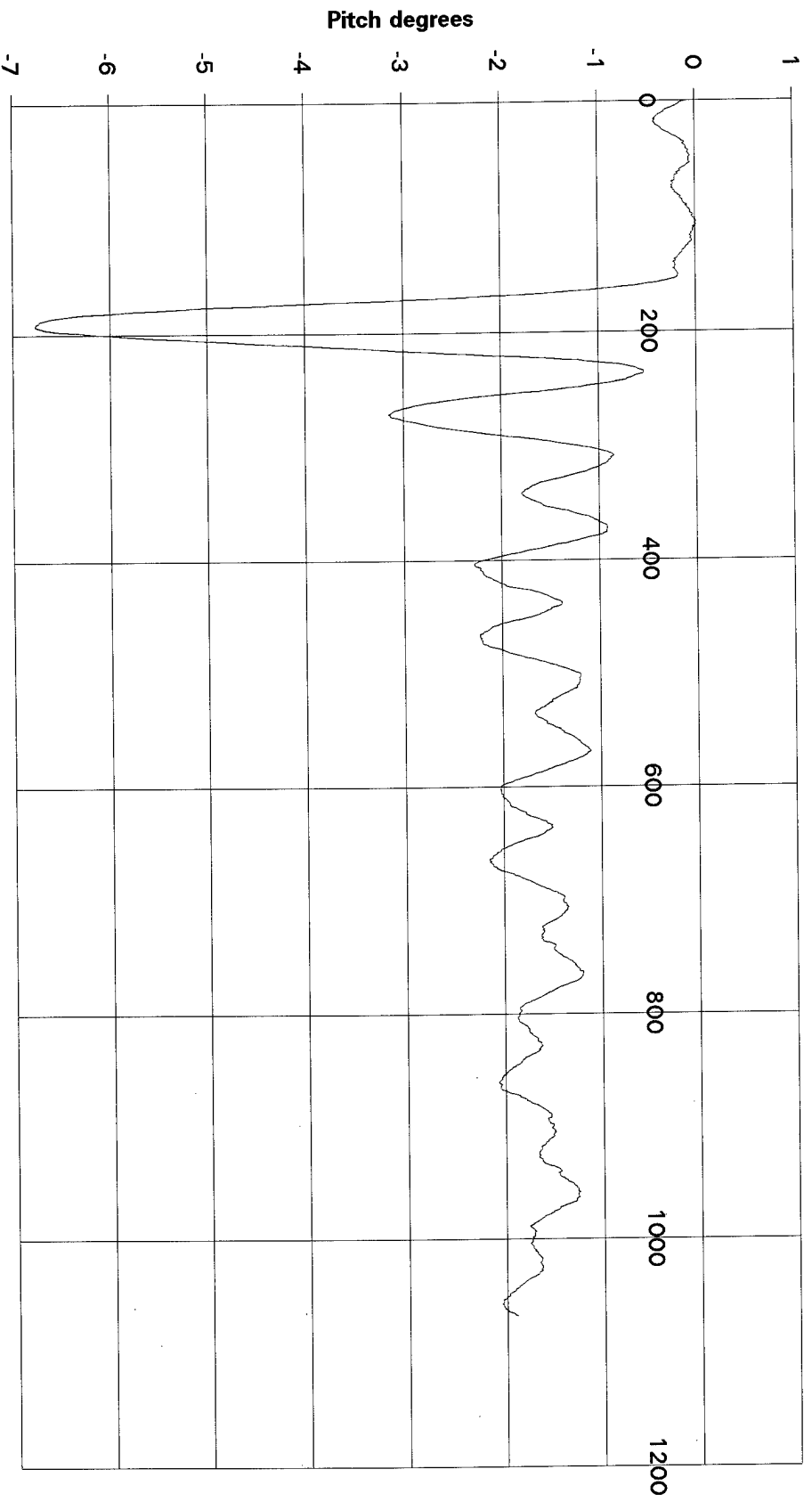
# 205 - Roll



Proto seconds

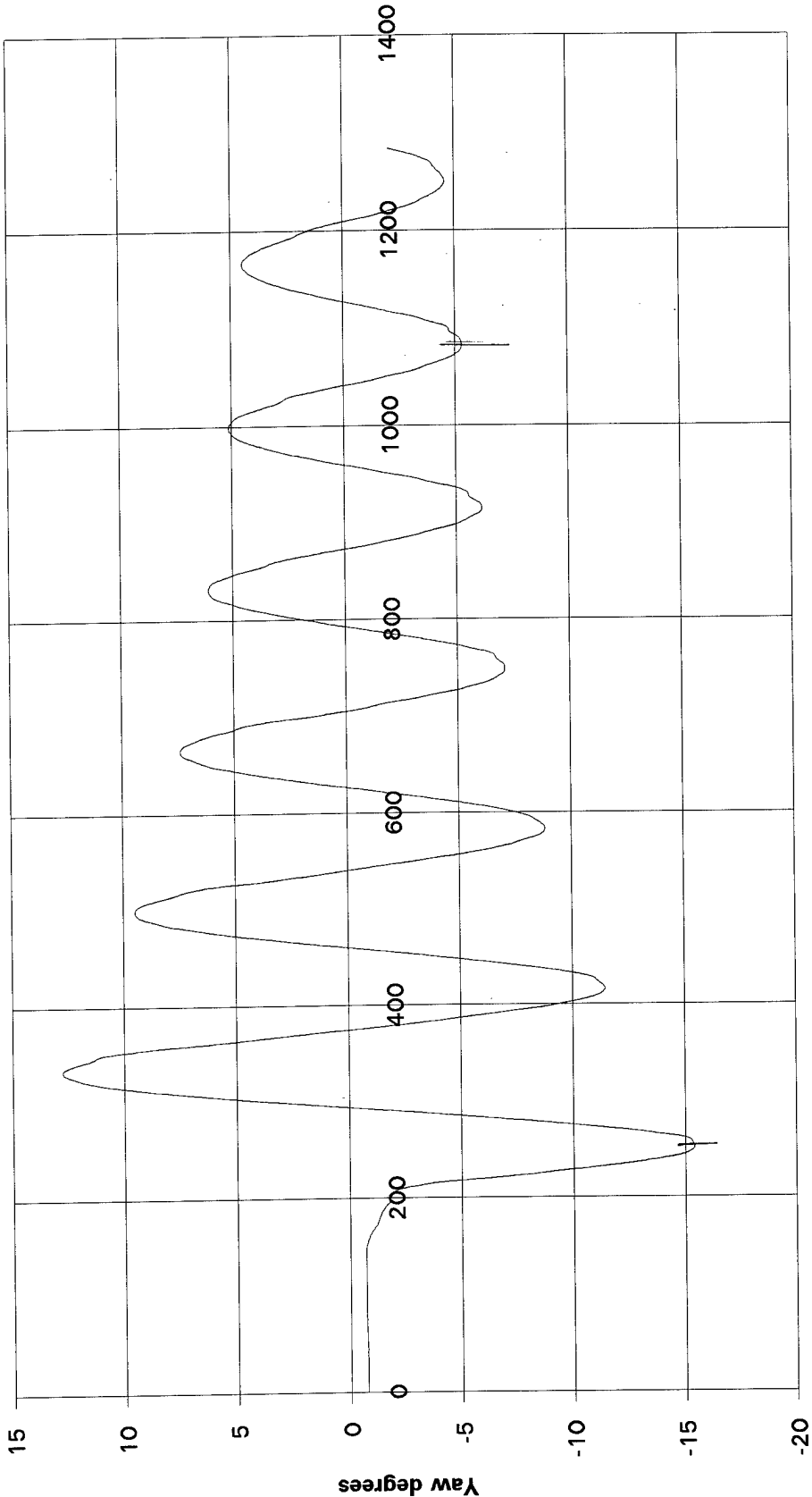


206 - Pitch



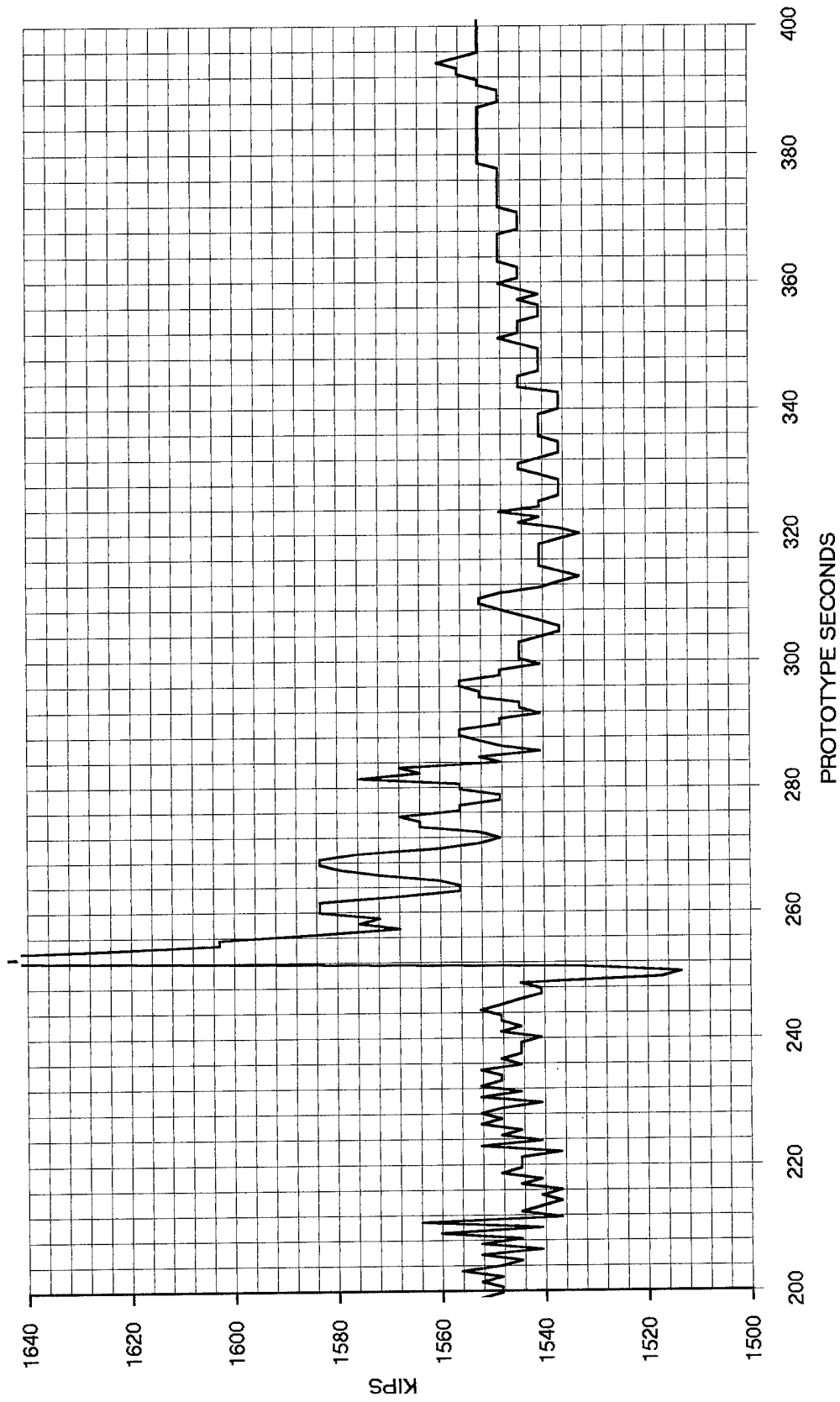
Proto seconds

207 - Yaw

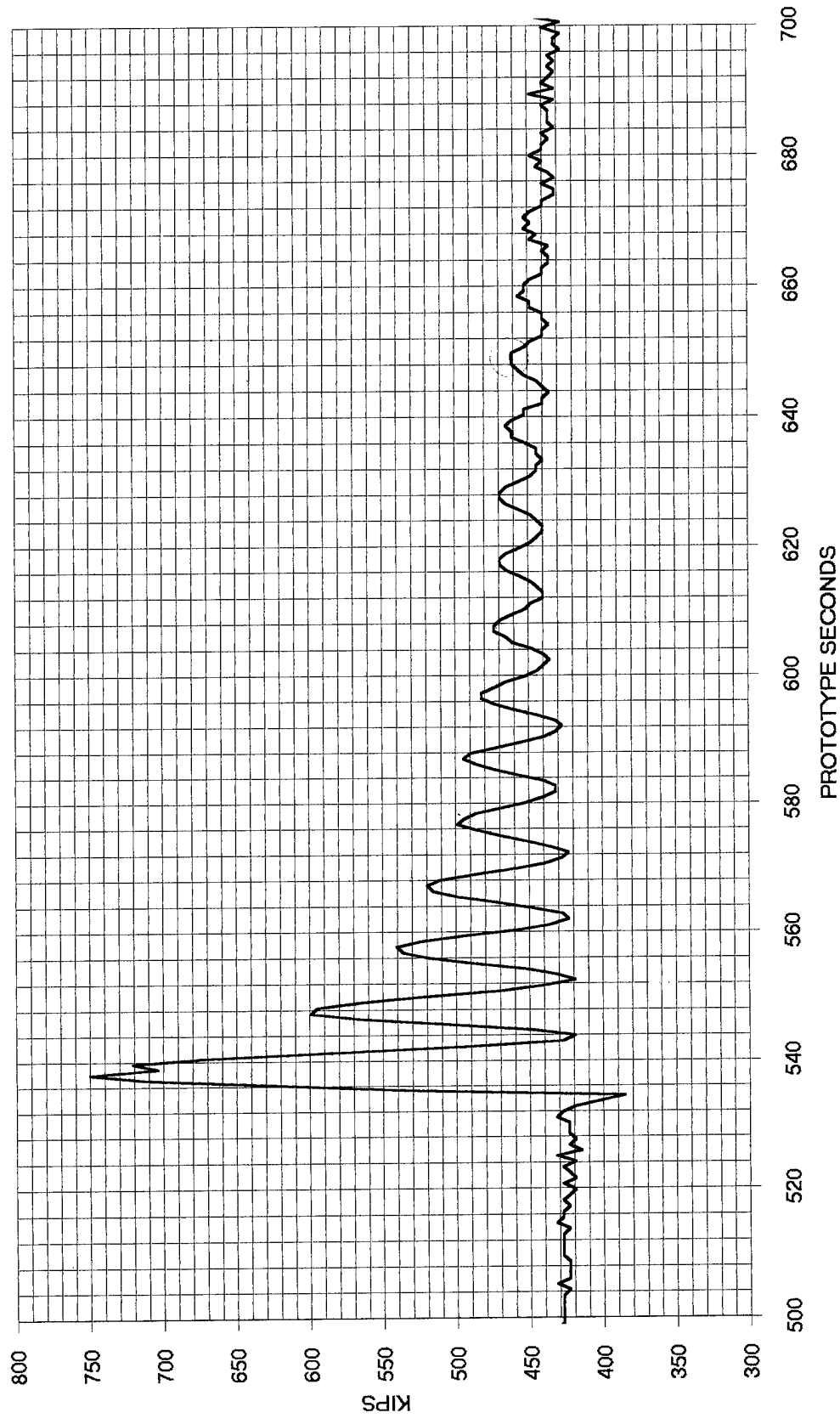


Proto seconds

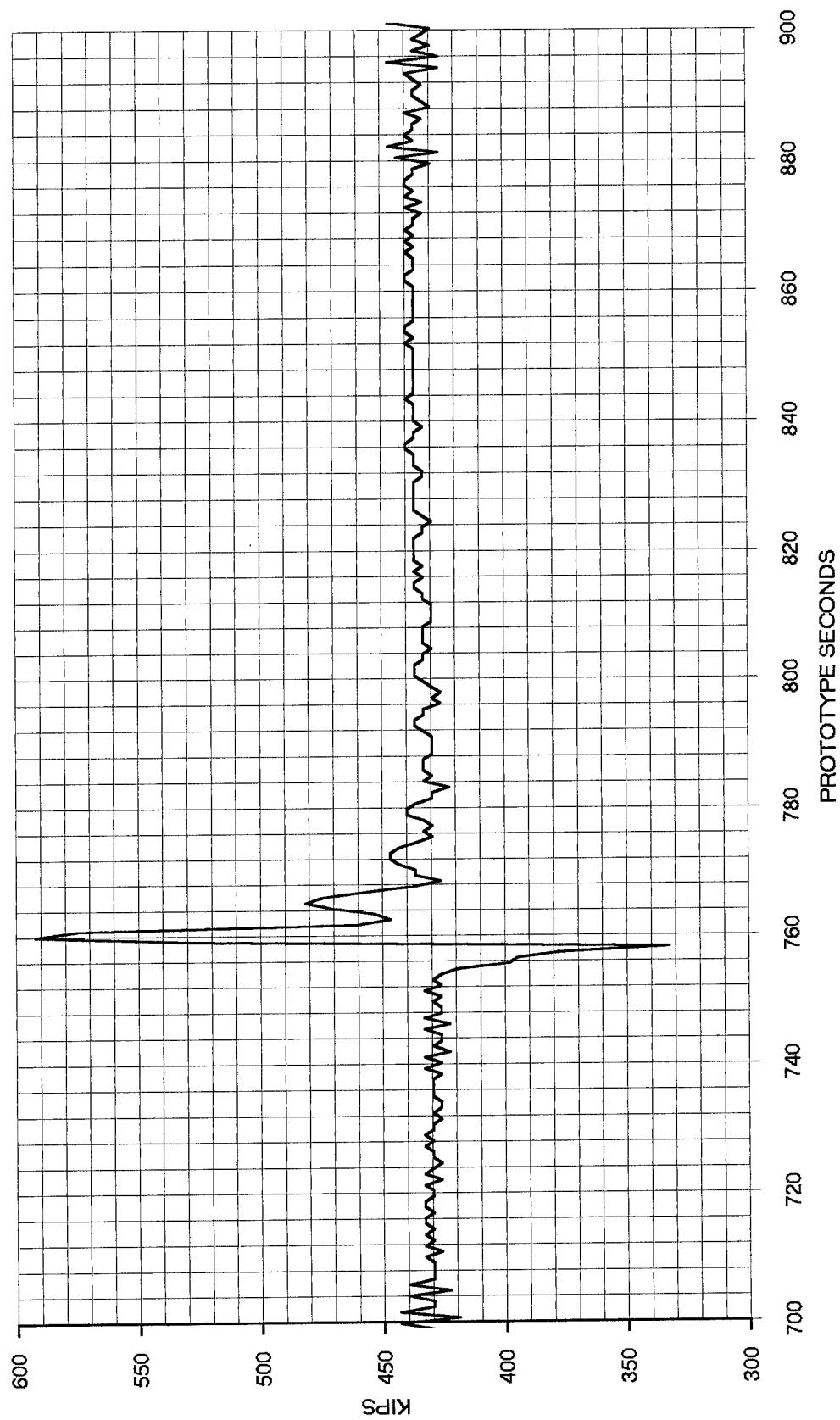
A530 - BT-1 FREE DECAY (DRY)



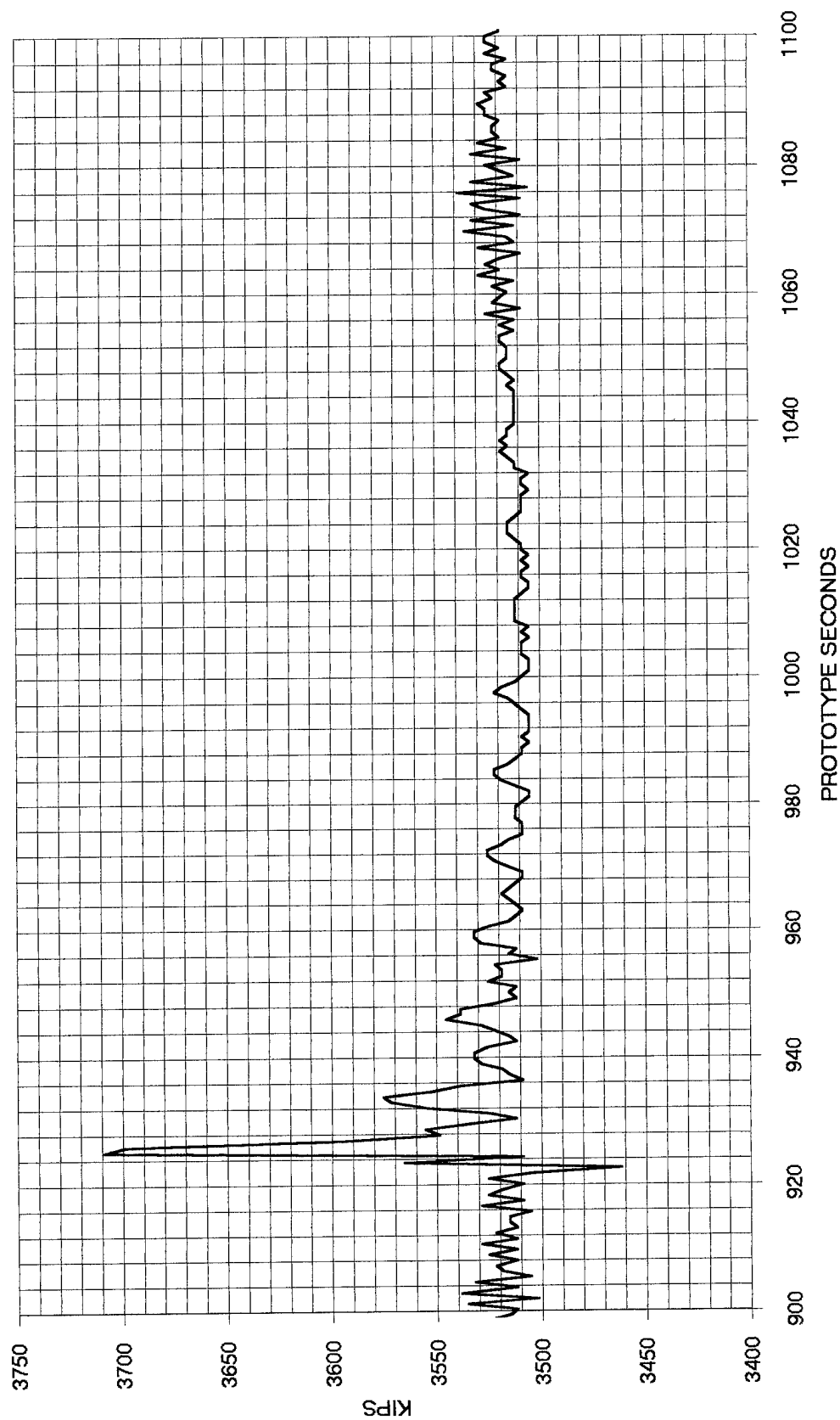
A530 - BT-2 FREE DECAY (INV. CONE)



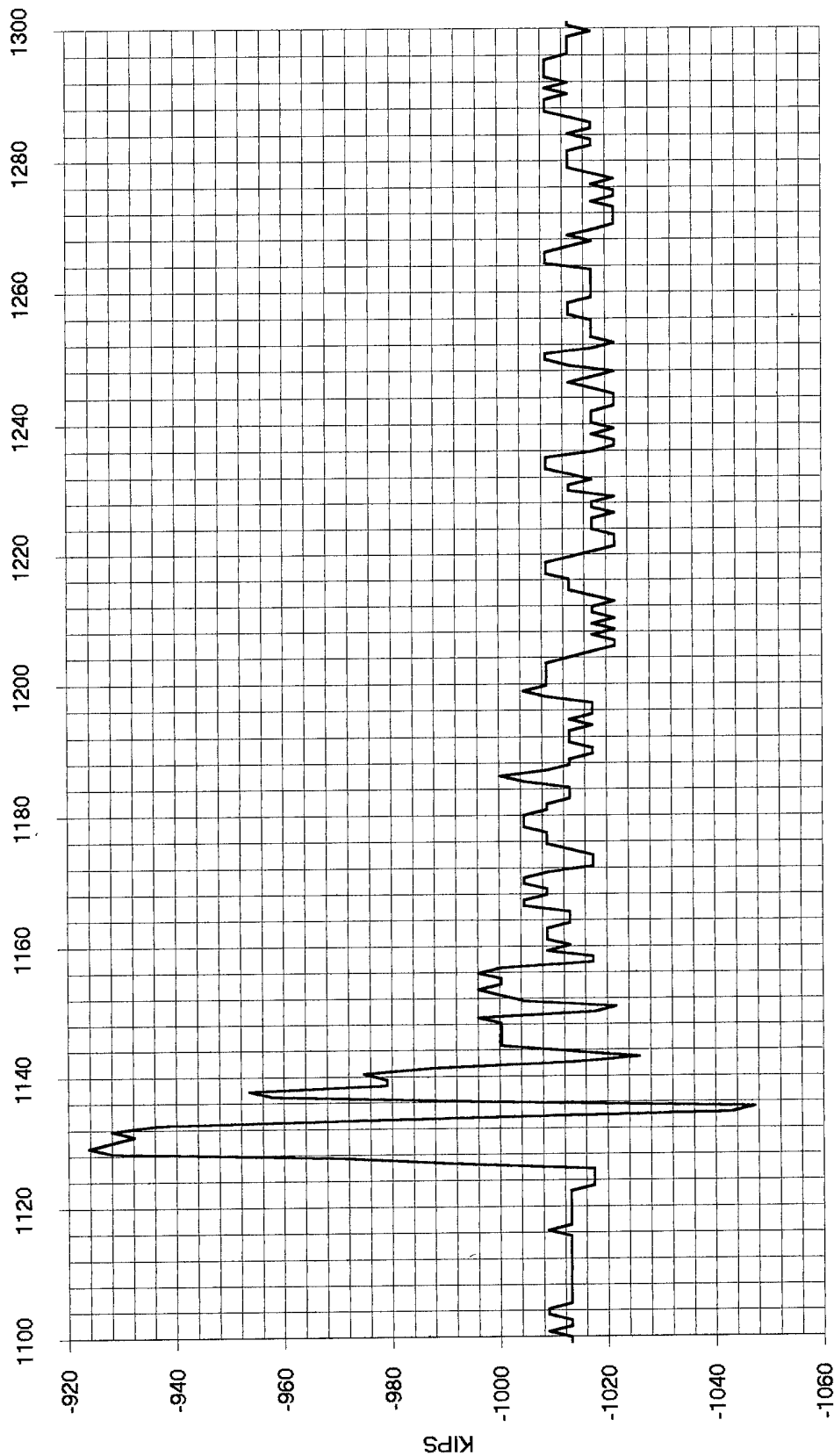
A530 - BT-3 FREE DECAY (HOUR GLASS)



A530 - BT-4 FREE DECAY (SEGMENTED)

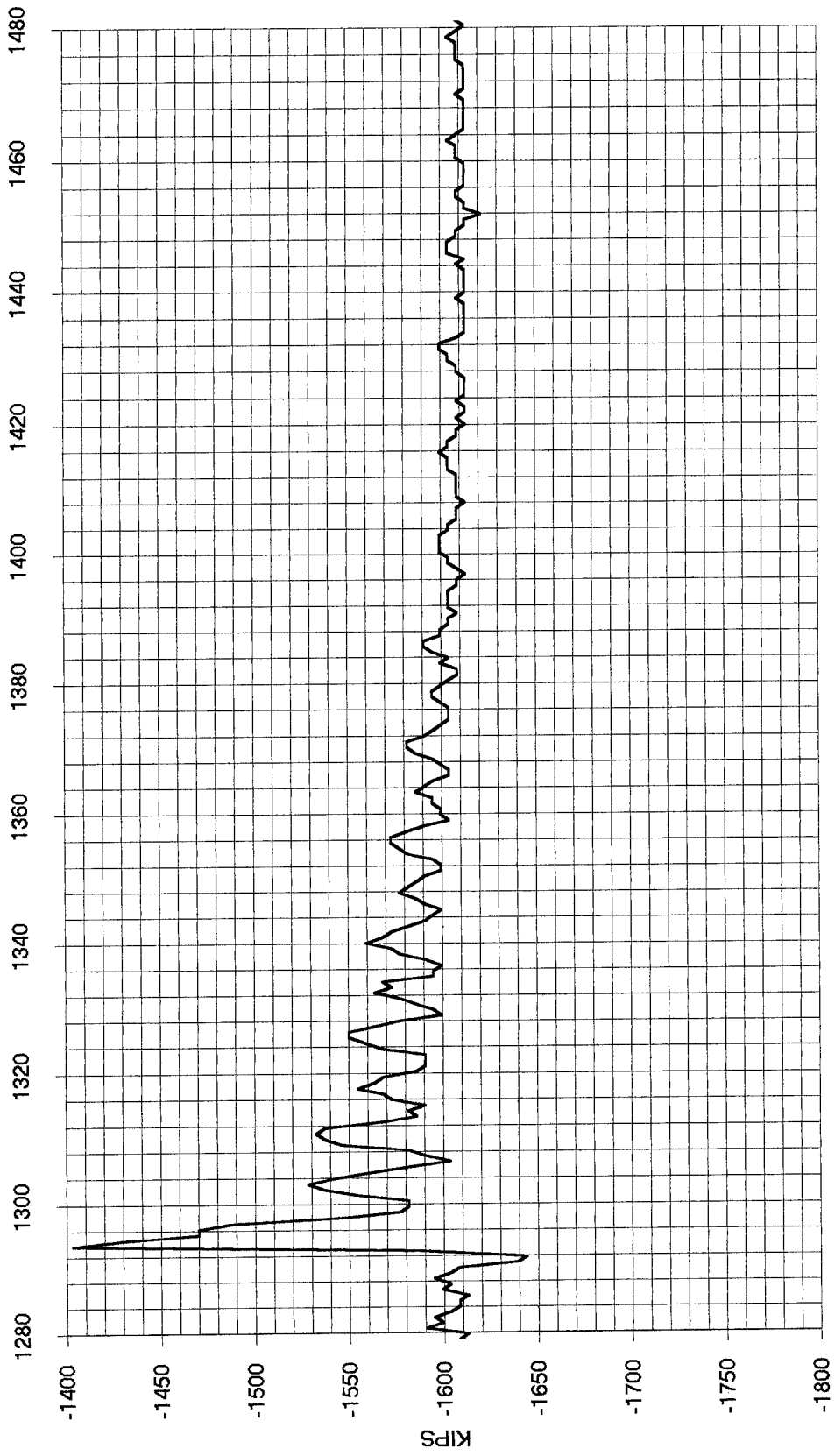


A530 - BT-6 FREE DECAY (CONST. TENSION)



PROTOTYPE SECONDS

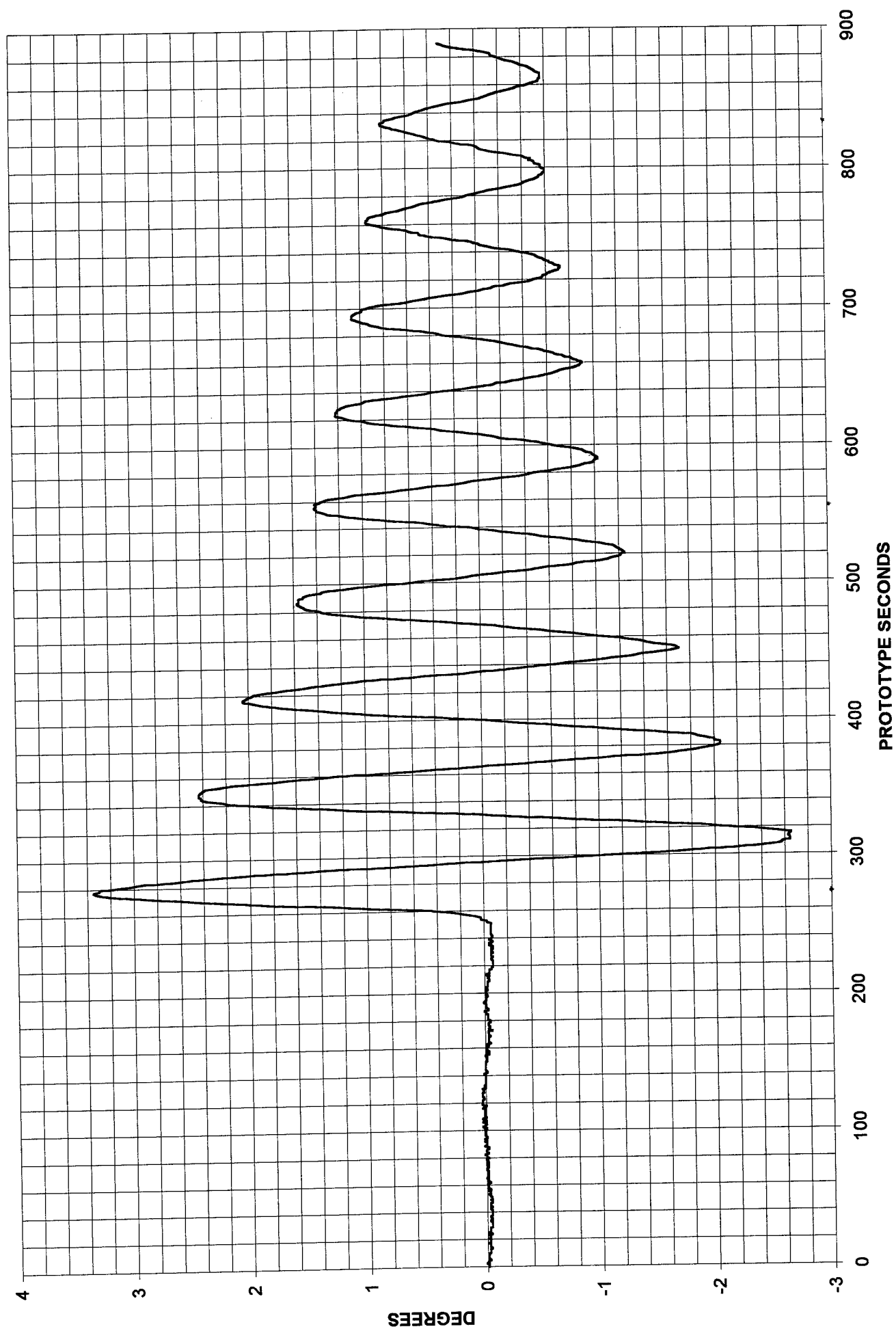
A530 - BT-5 FREE DECAY (LINK)



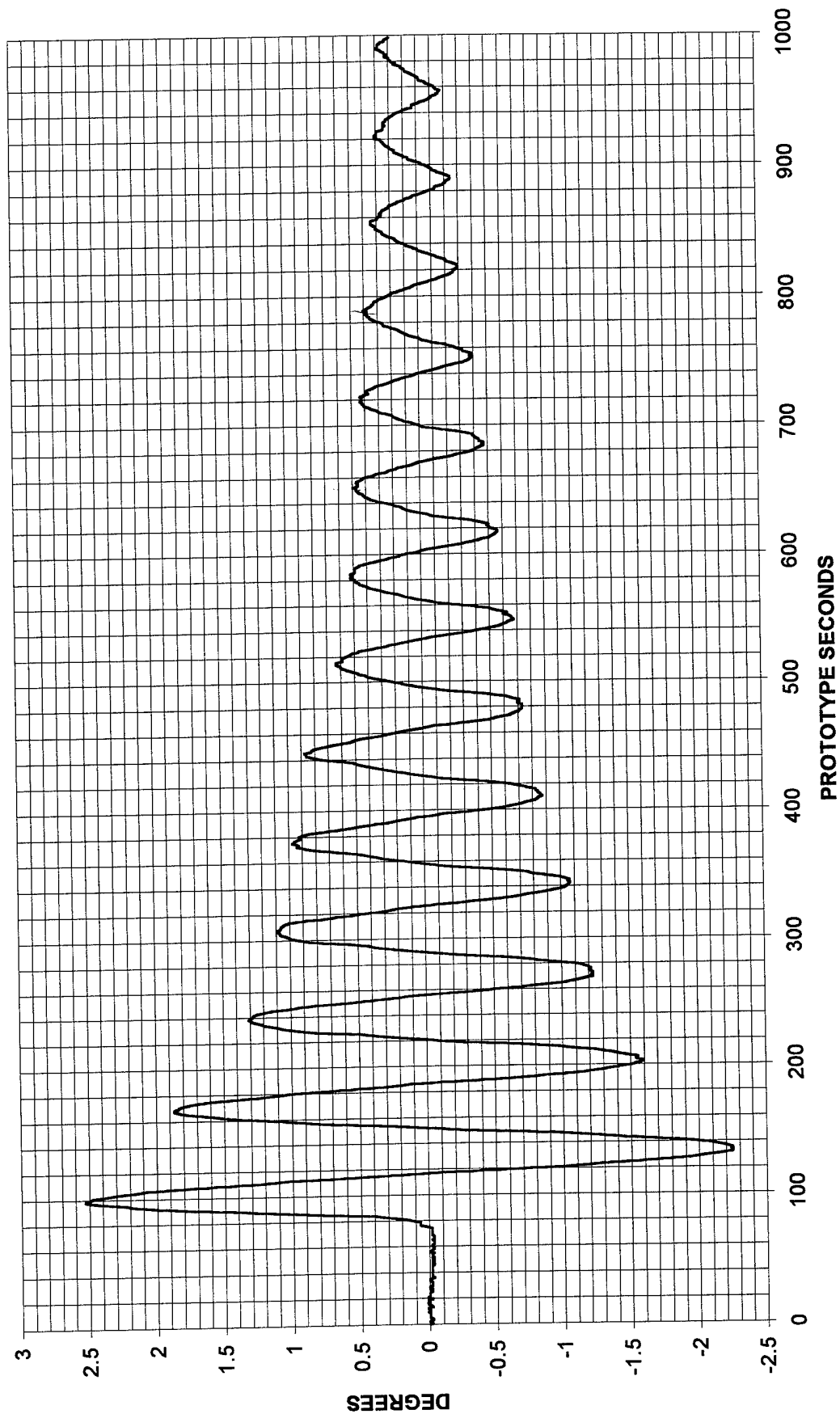
PROTOTYPE SECONDS



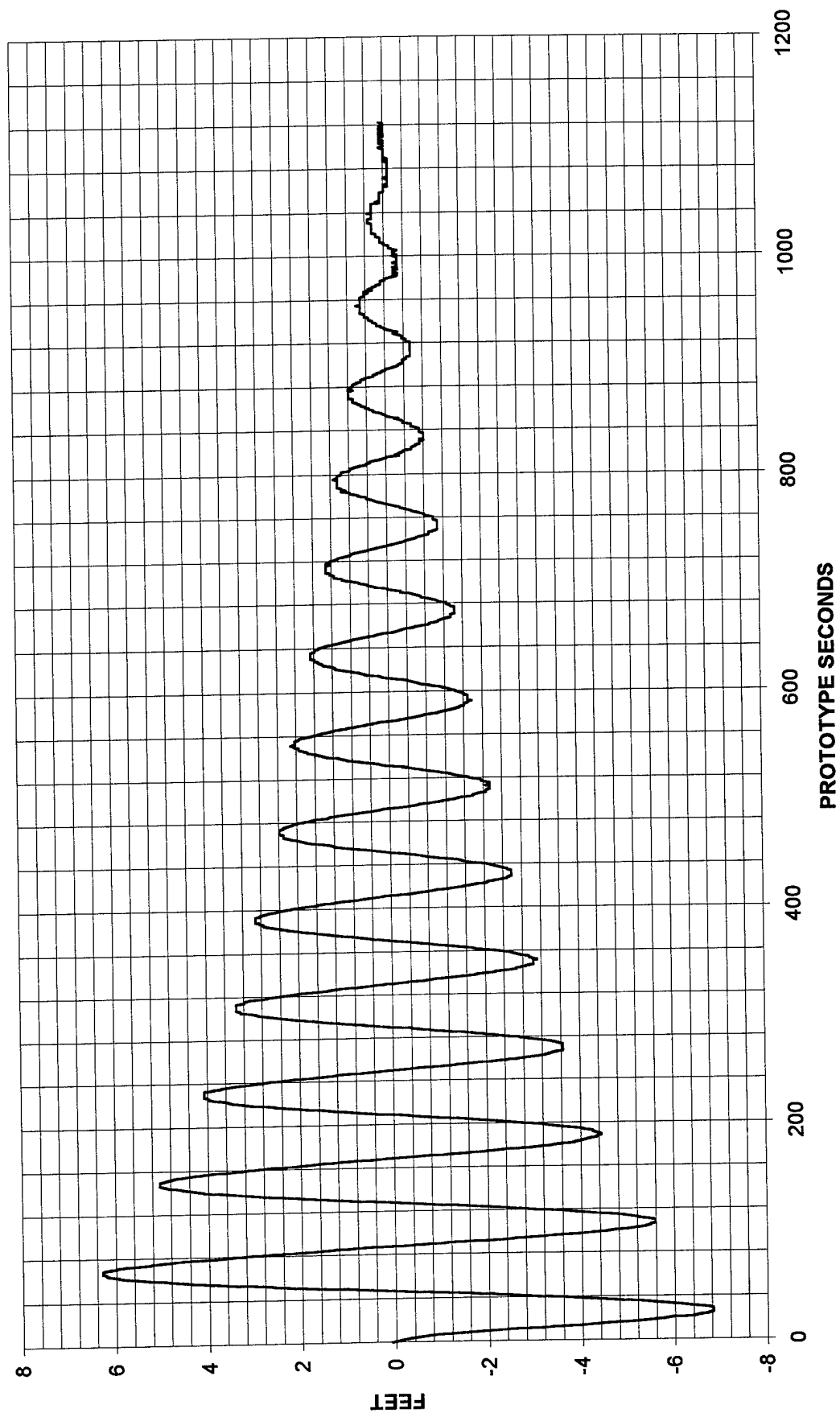
# A559B - PITCH FREE DECAY



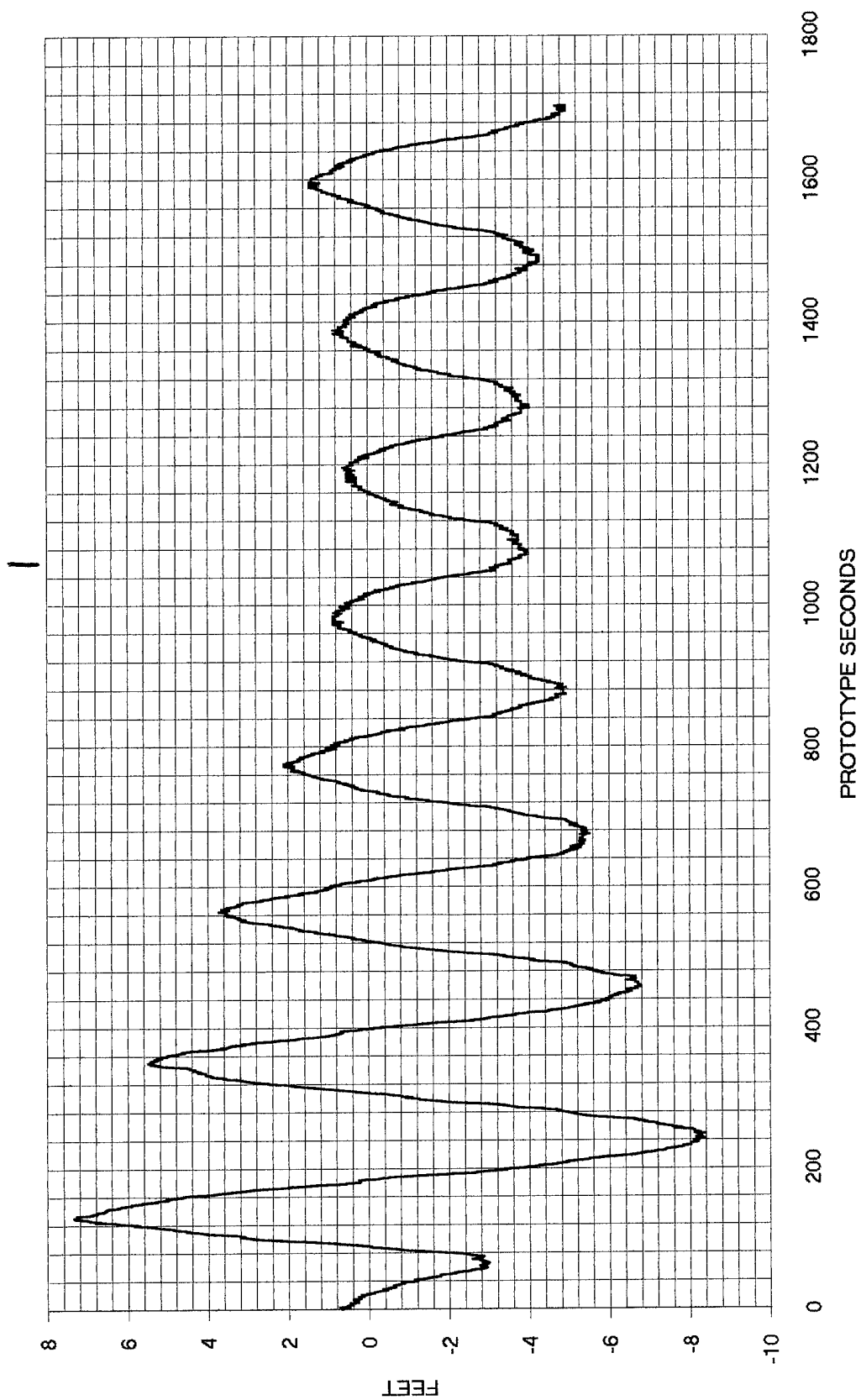
## A560 - FREE DECAY ROLL



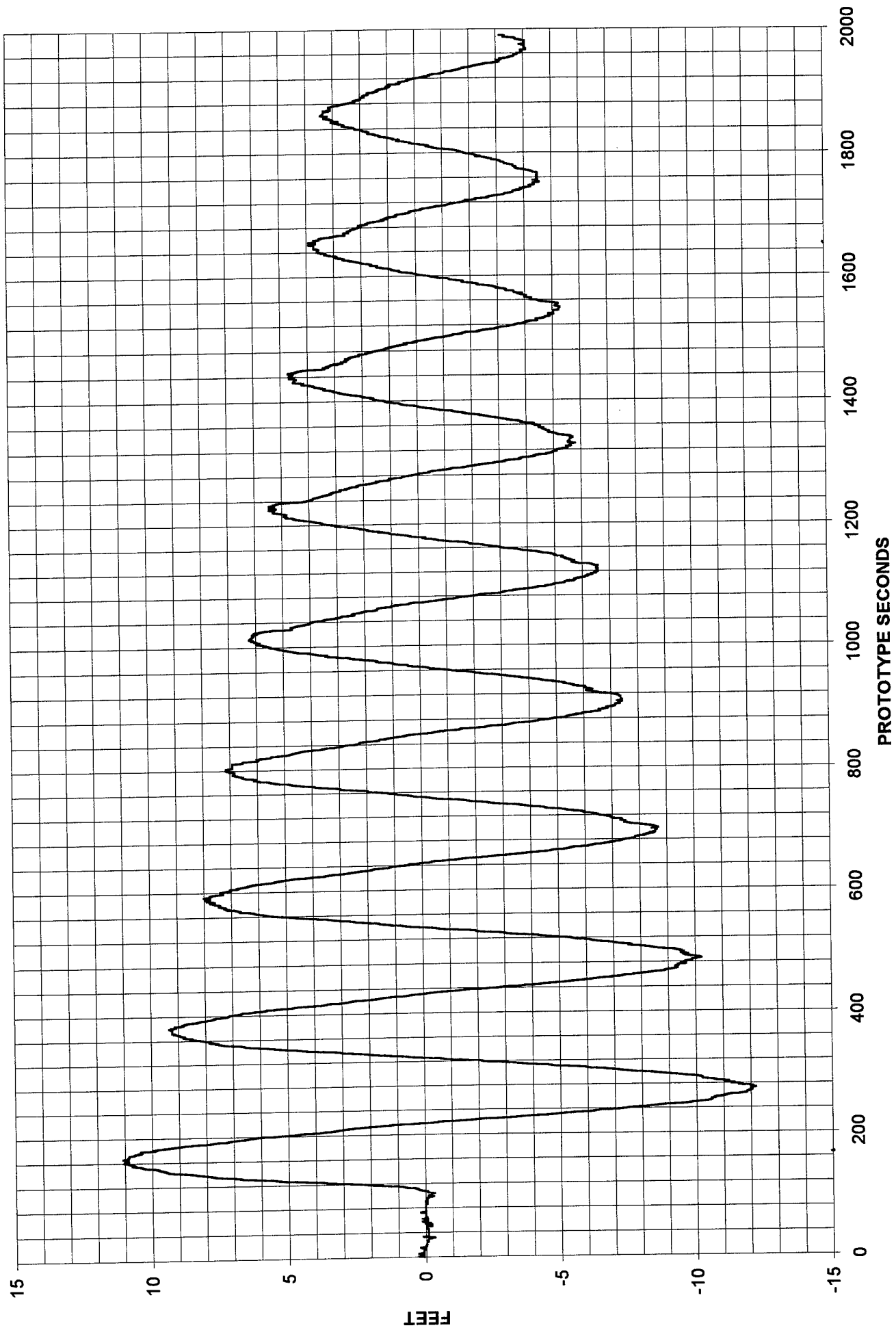
# A561 - FREE DECAY HEAVE



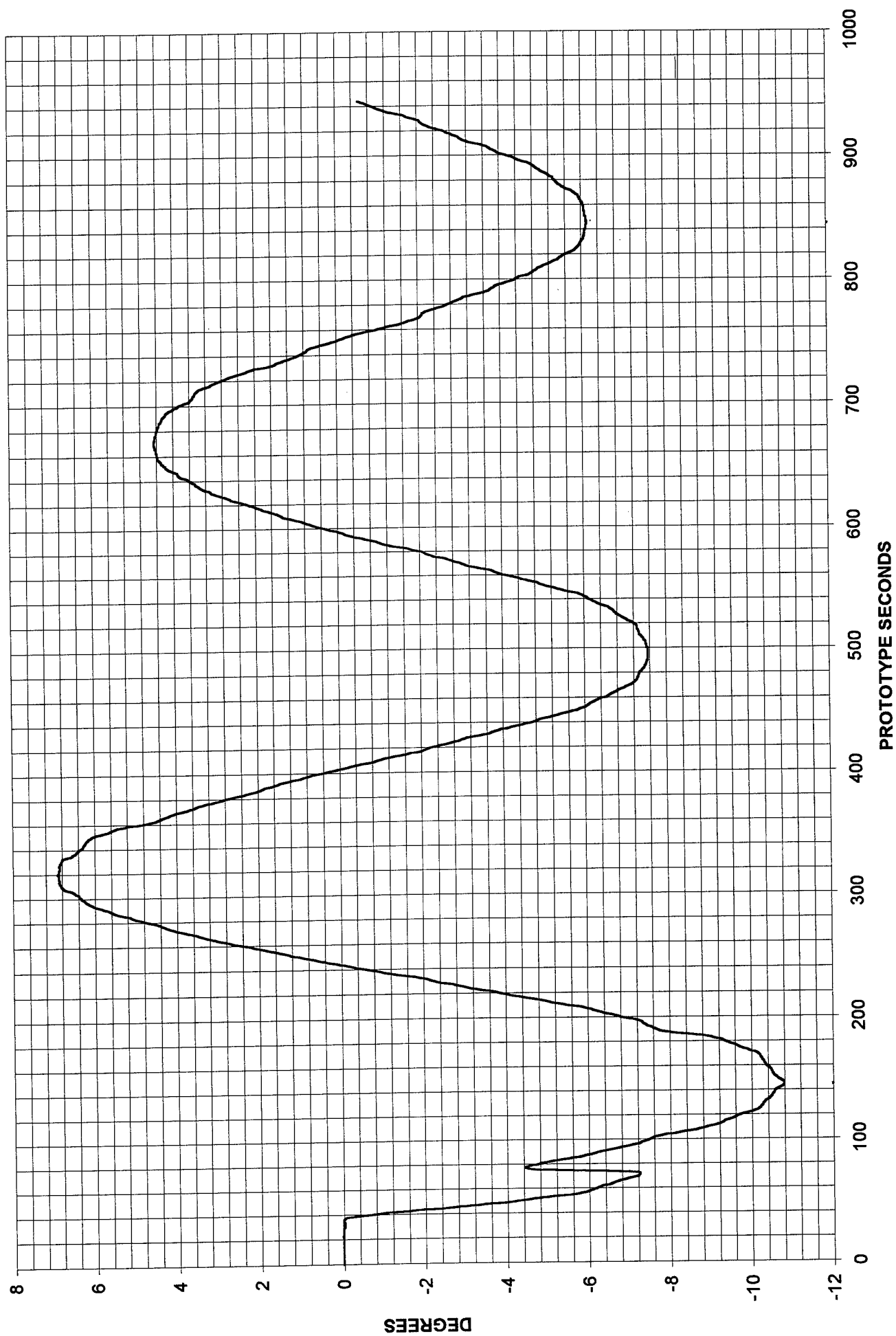
A562 - SURGE FREE DECAY



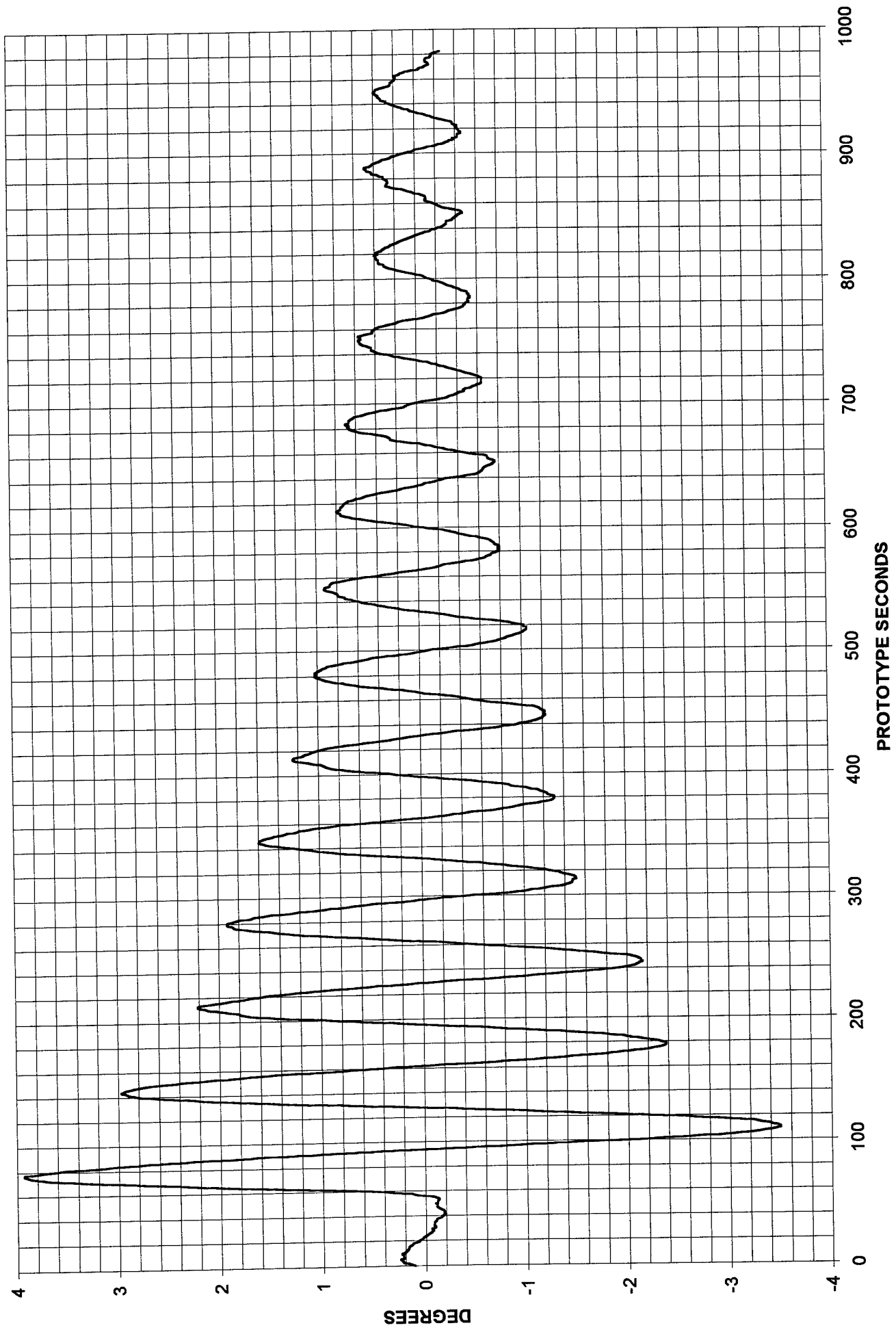
A563 - SWAY FREE DECAY



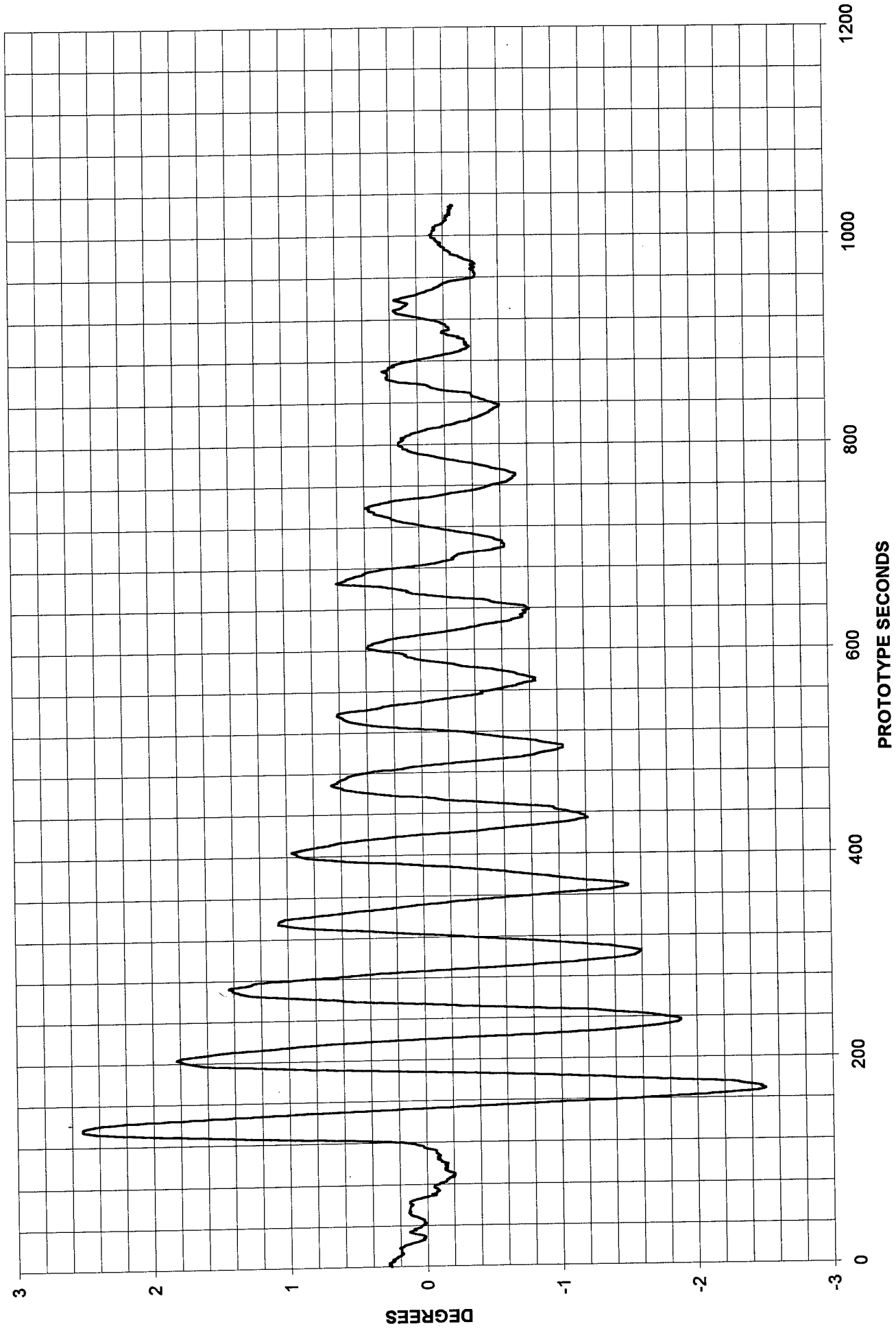
# A564 - YAW FREE DECAY



# A580 - PITCH FREE DECAY

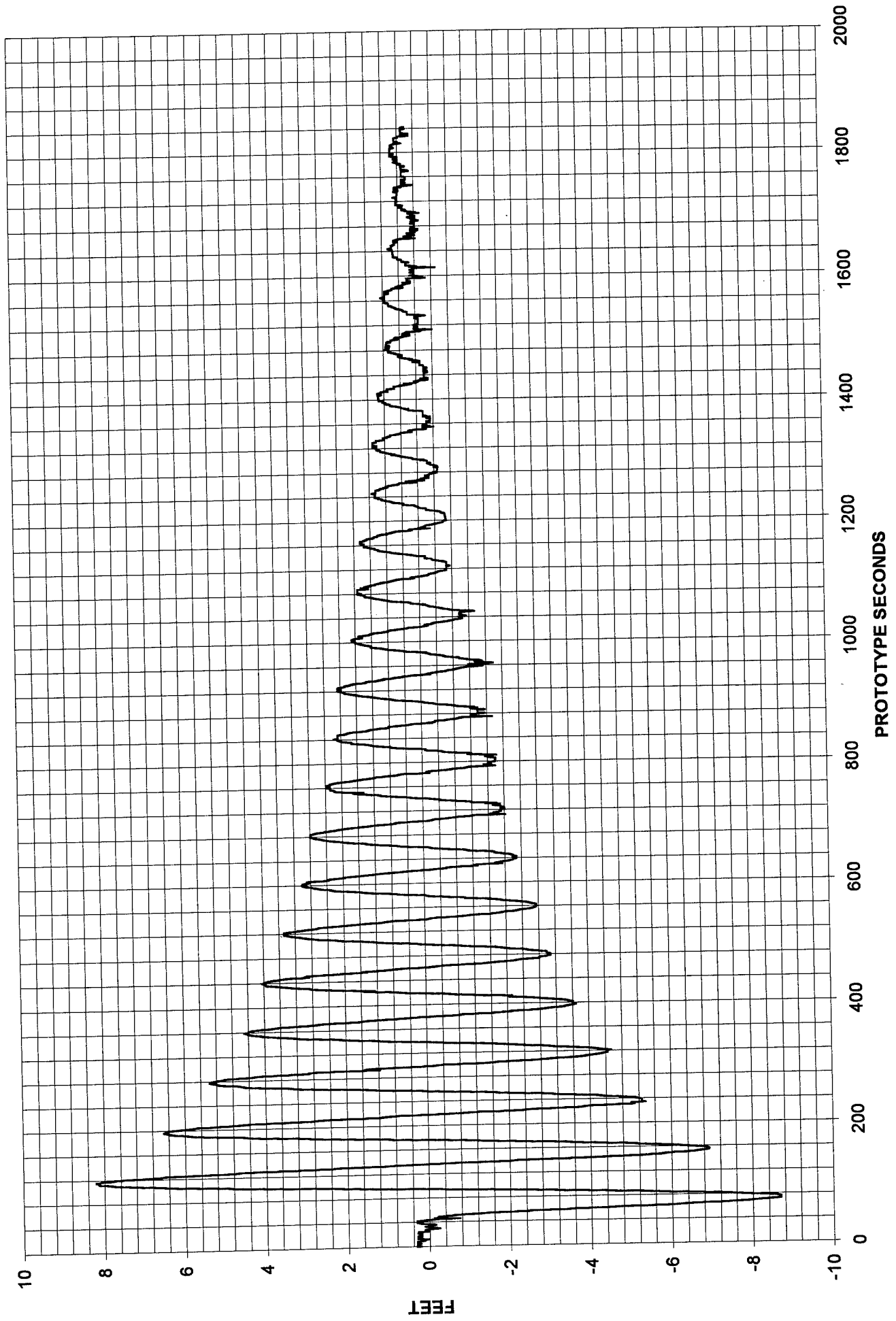


# A590 - PITCH FREE DECAY

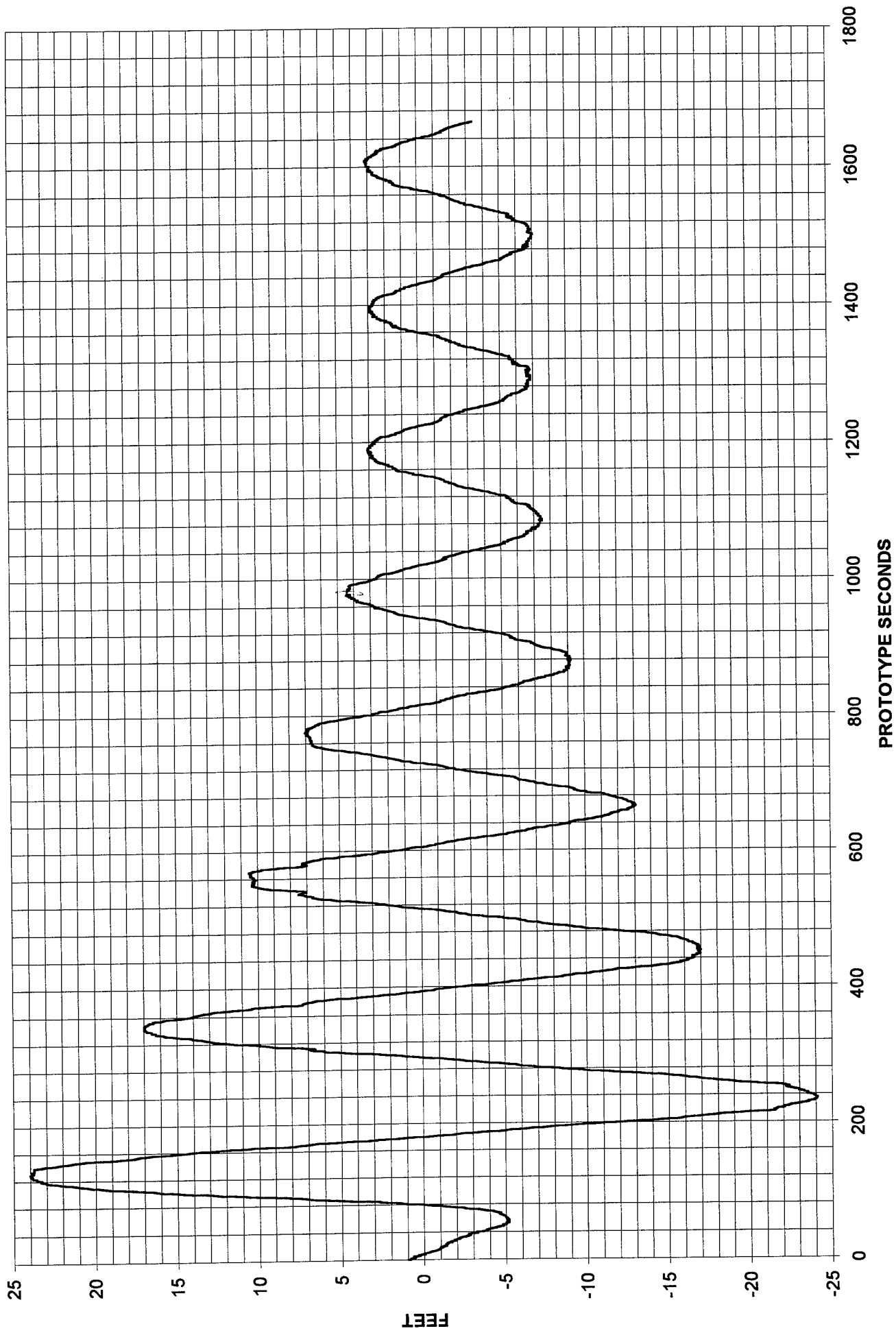




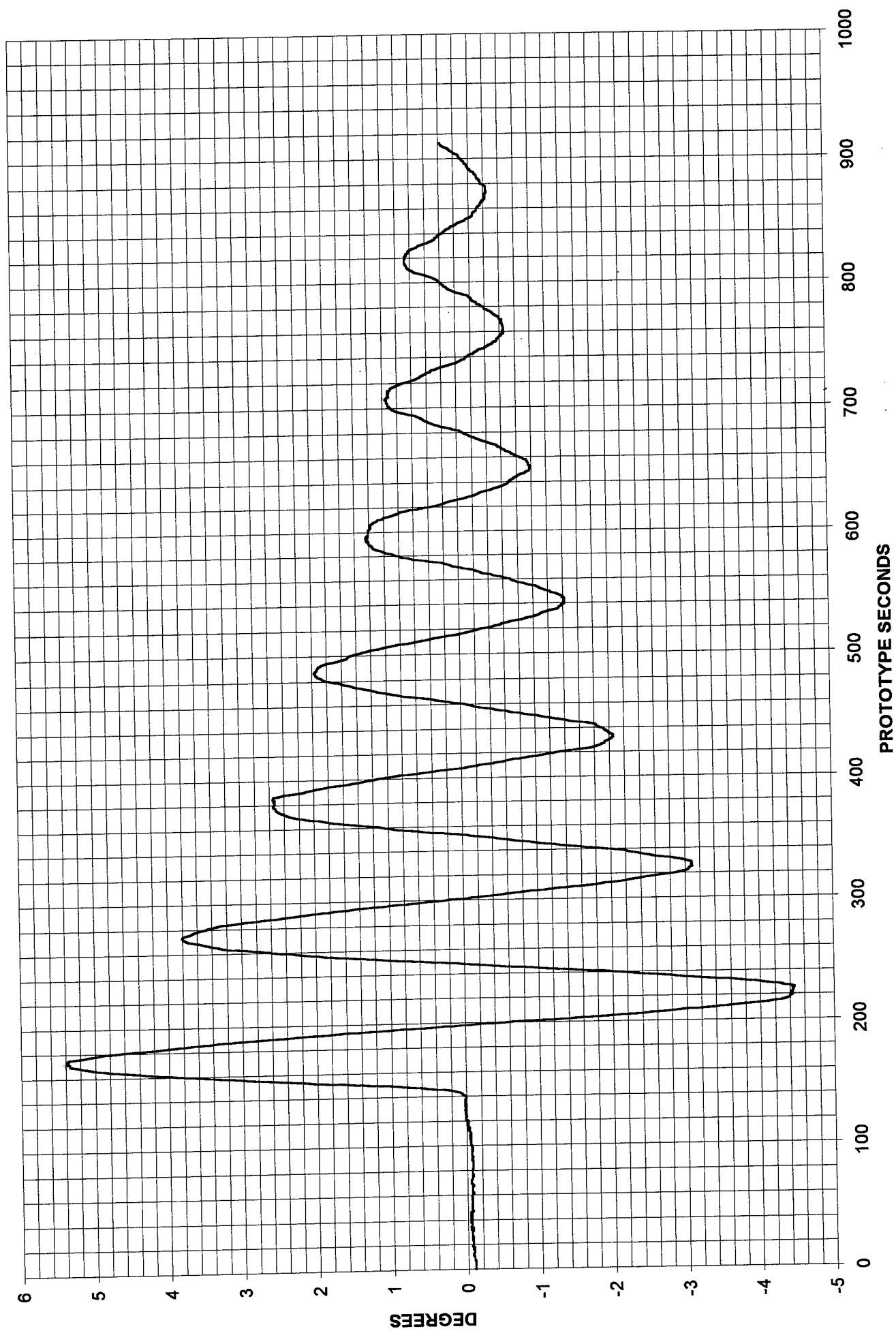
# A591 - HEAVE FREE DECAY



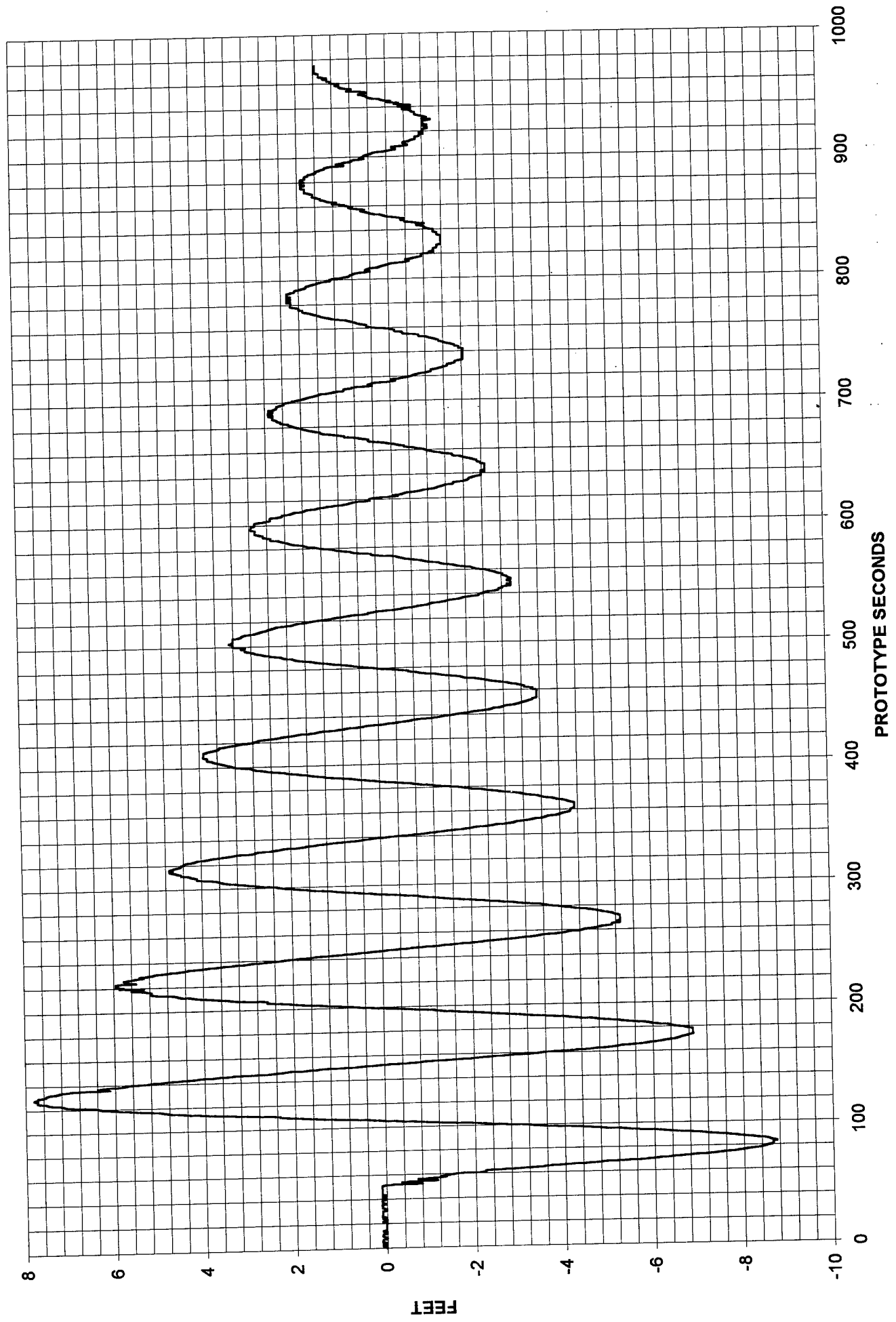
A592 - SURGE FREE DECAY



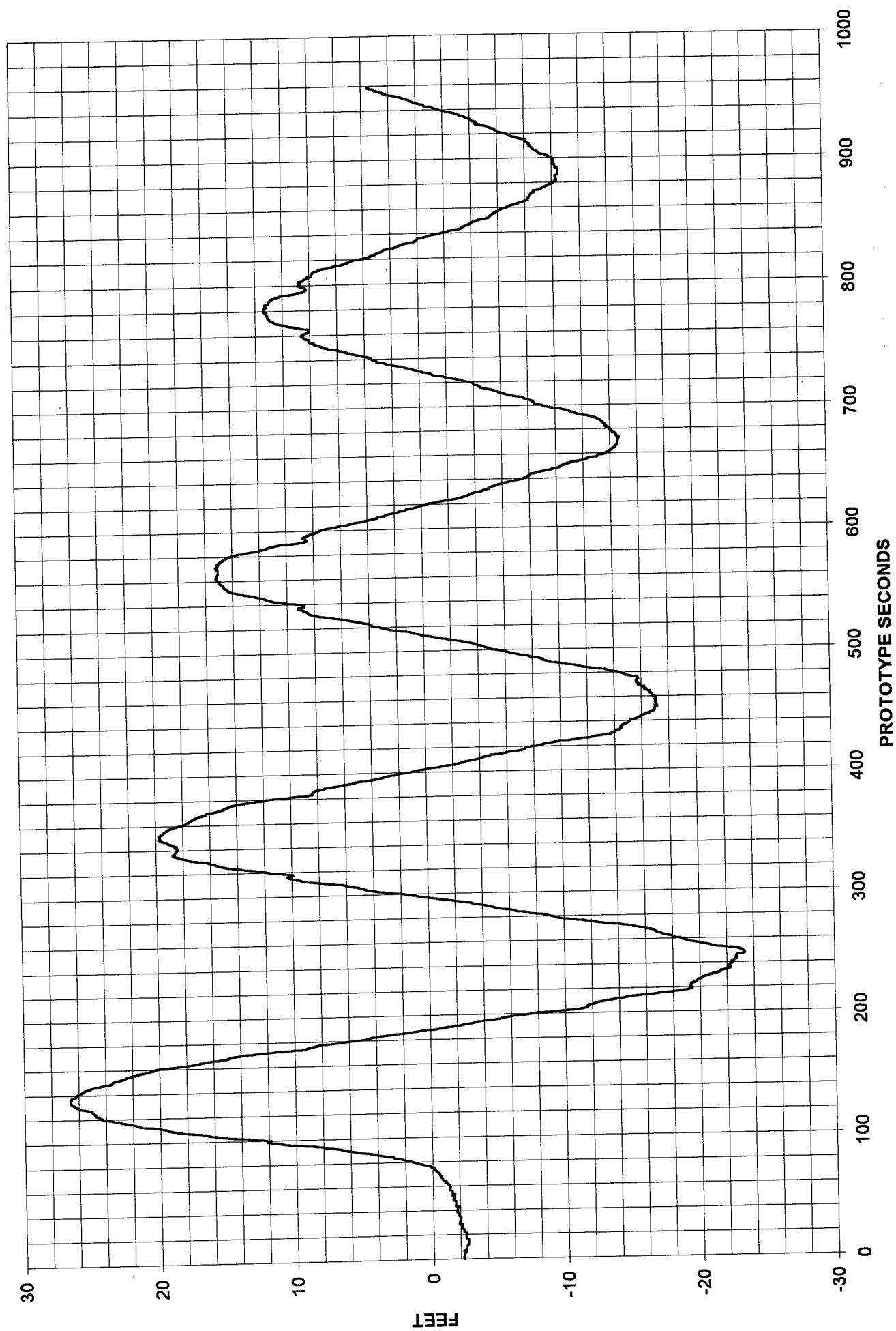
# A600 - PITCH FREE DECAY



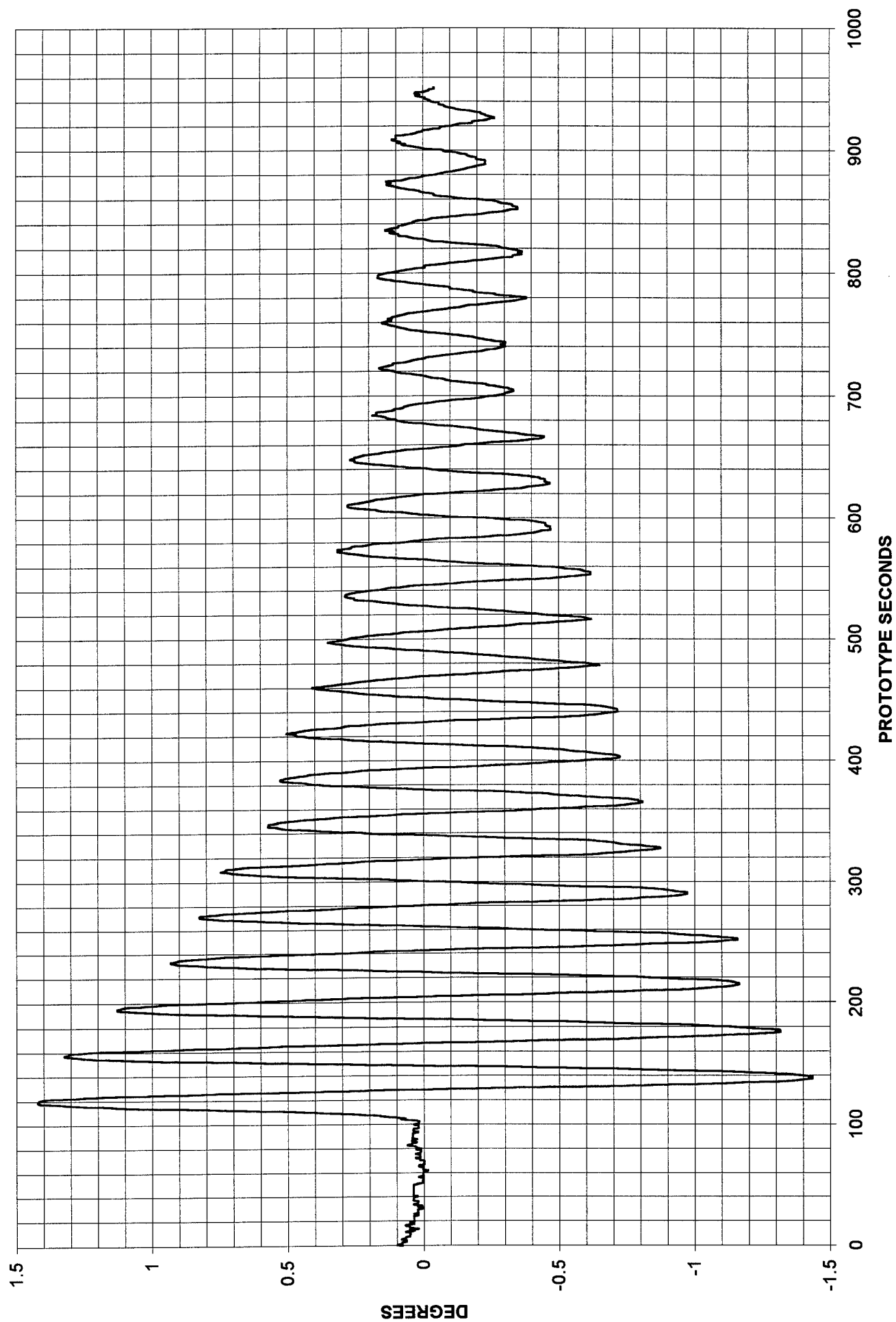
# A601 - HEAVE FREE DECAY



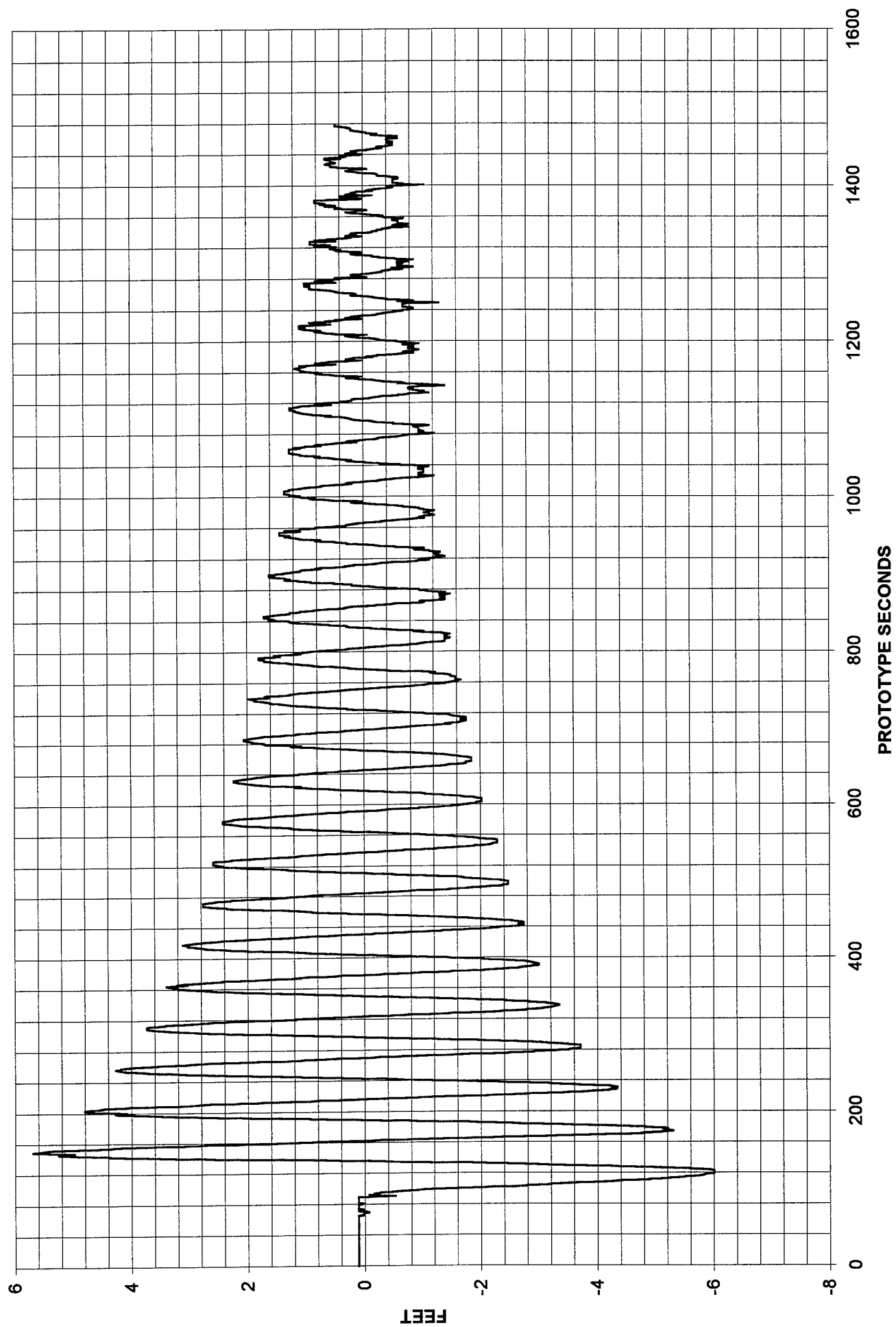
# A602 - SURGE FREE DECAY



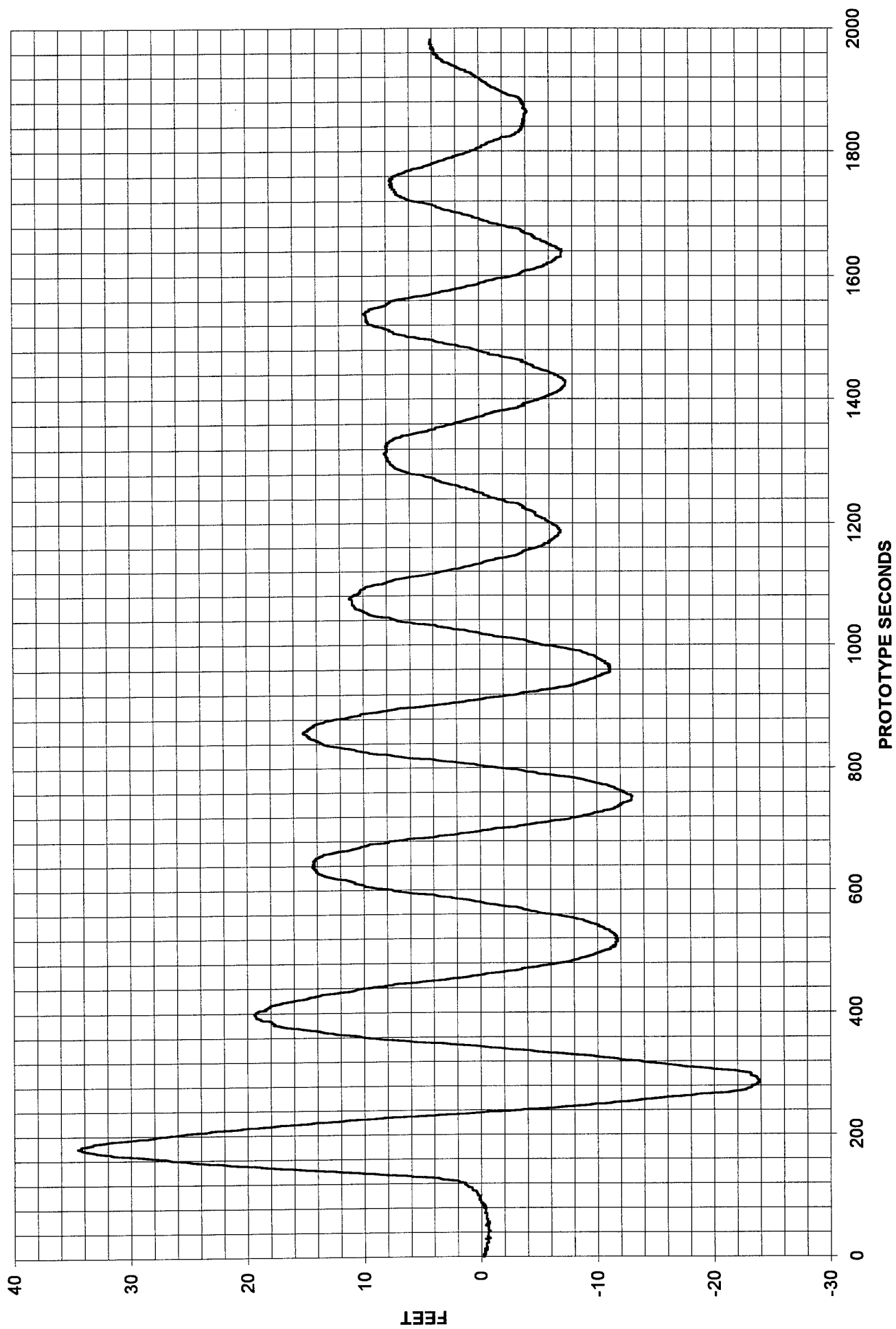
# A700 - PITCH FREE DECAY



# A701 - HEAVE FREE DECAY

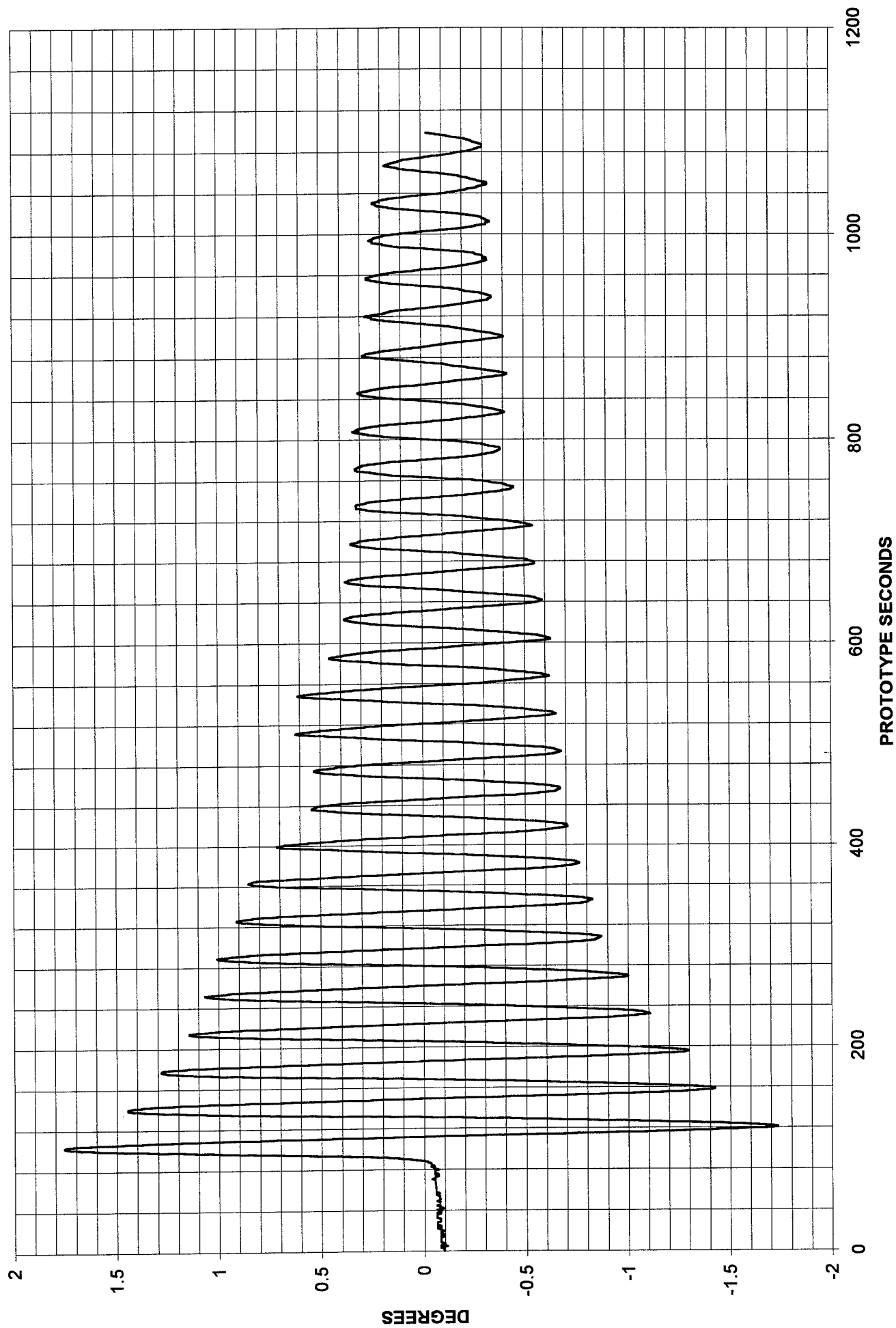


# A702 - SURGE FREE DECAY

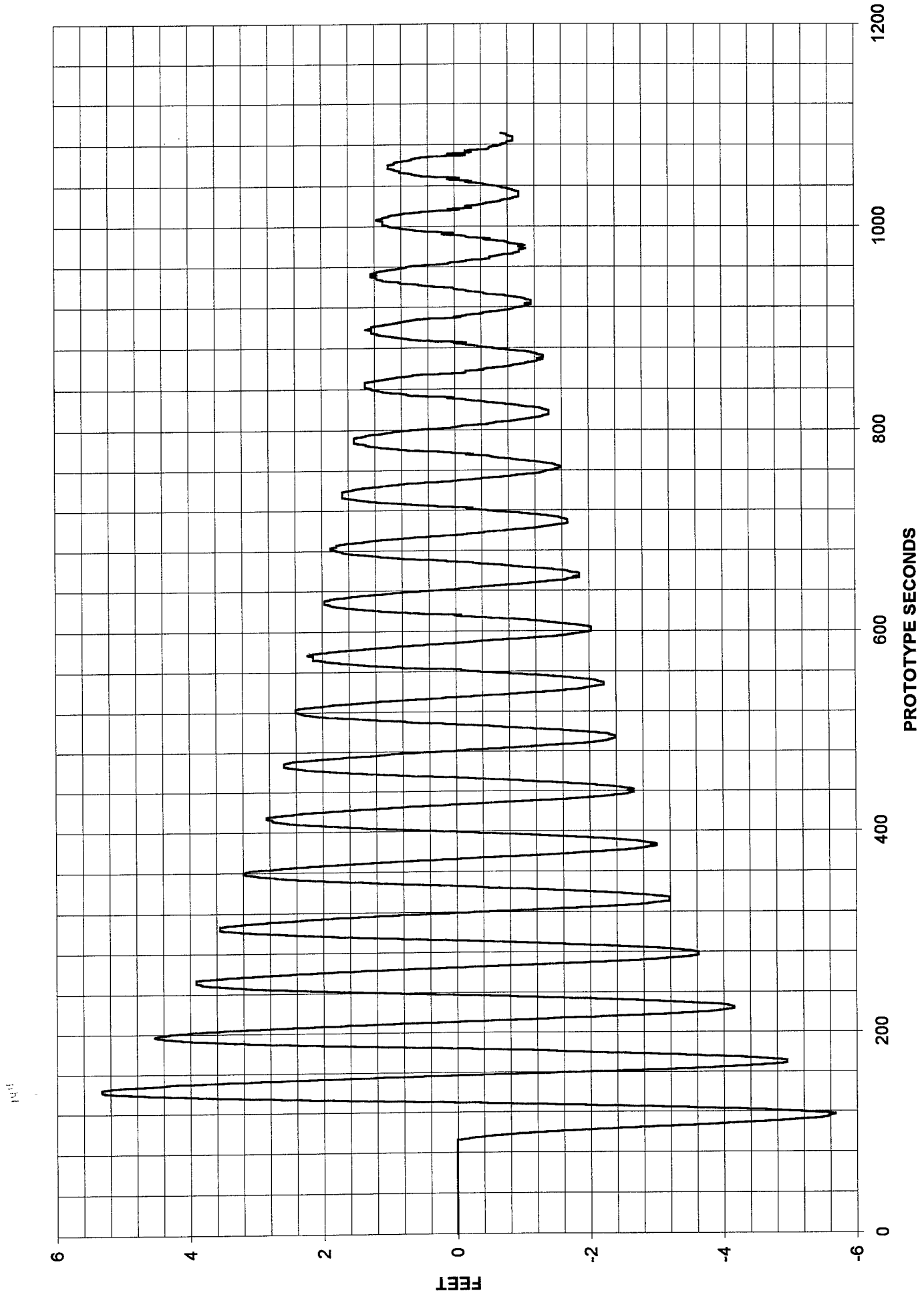




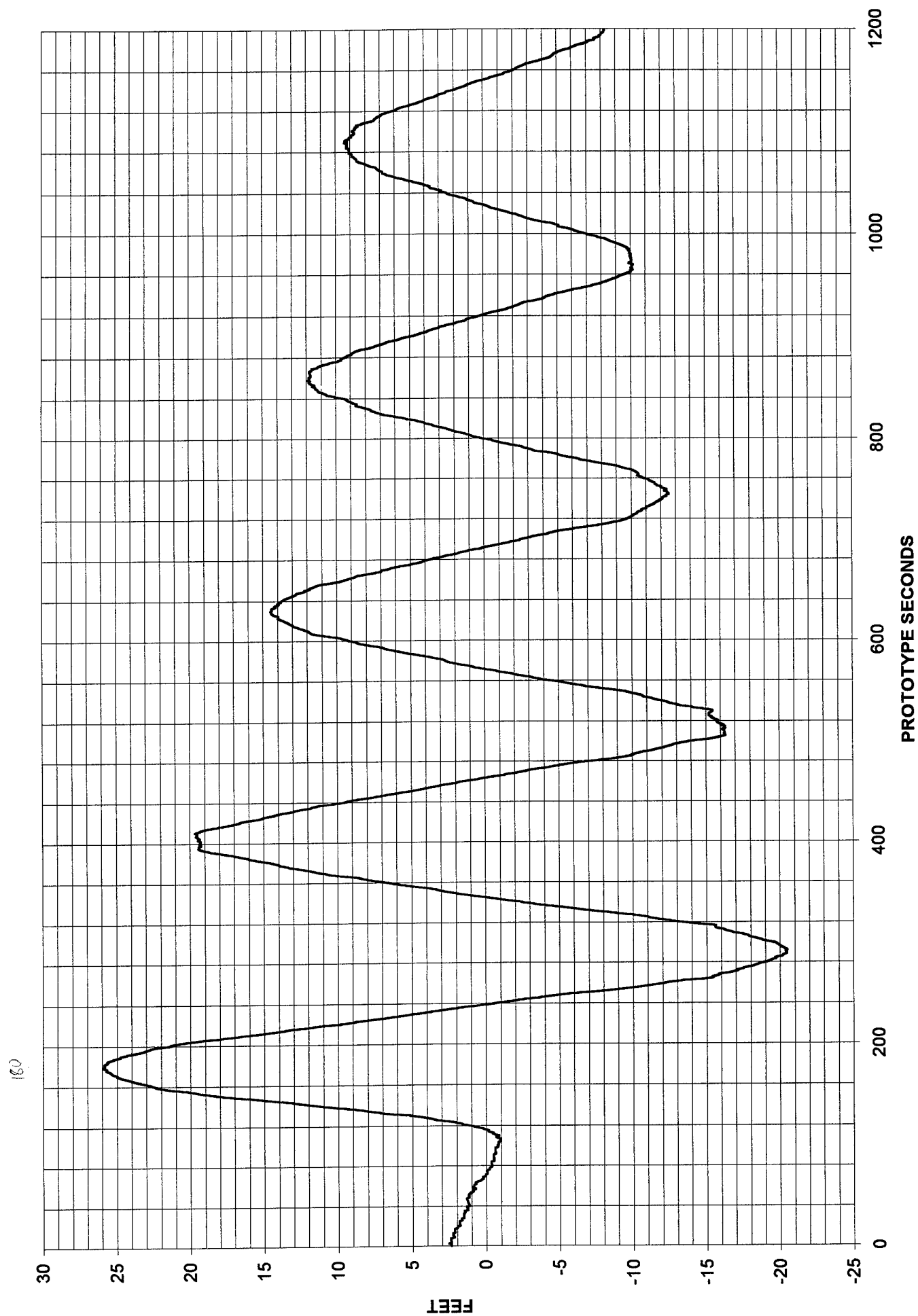
# A800 - PITCH FREE DECAY



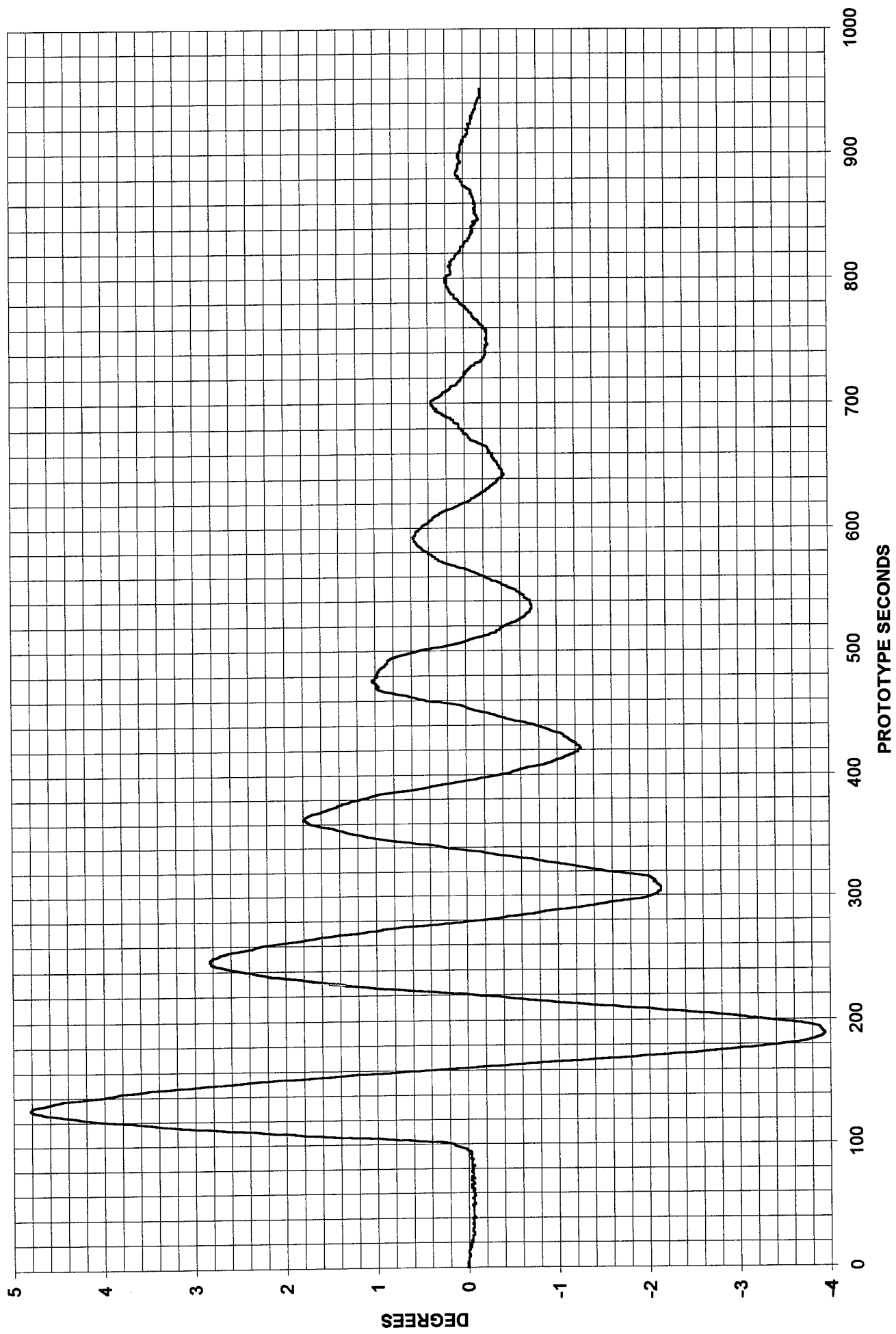
# A801 - PT HEAVE FREE DECAY



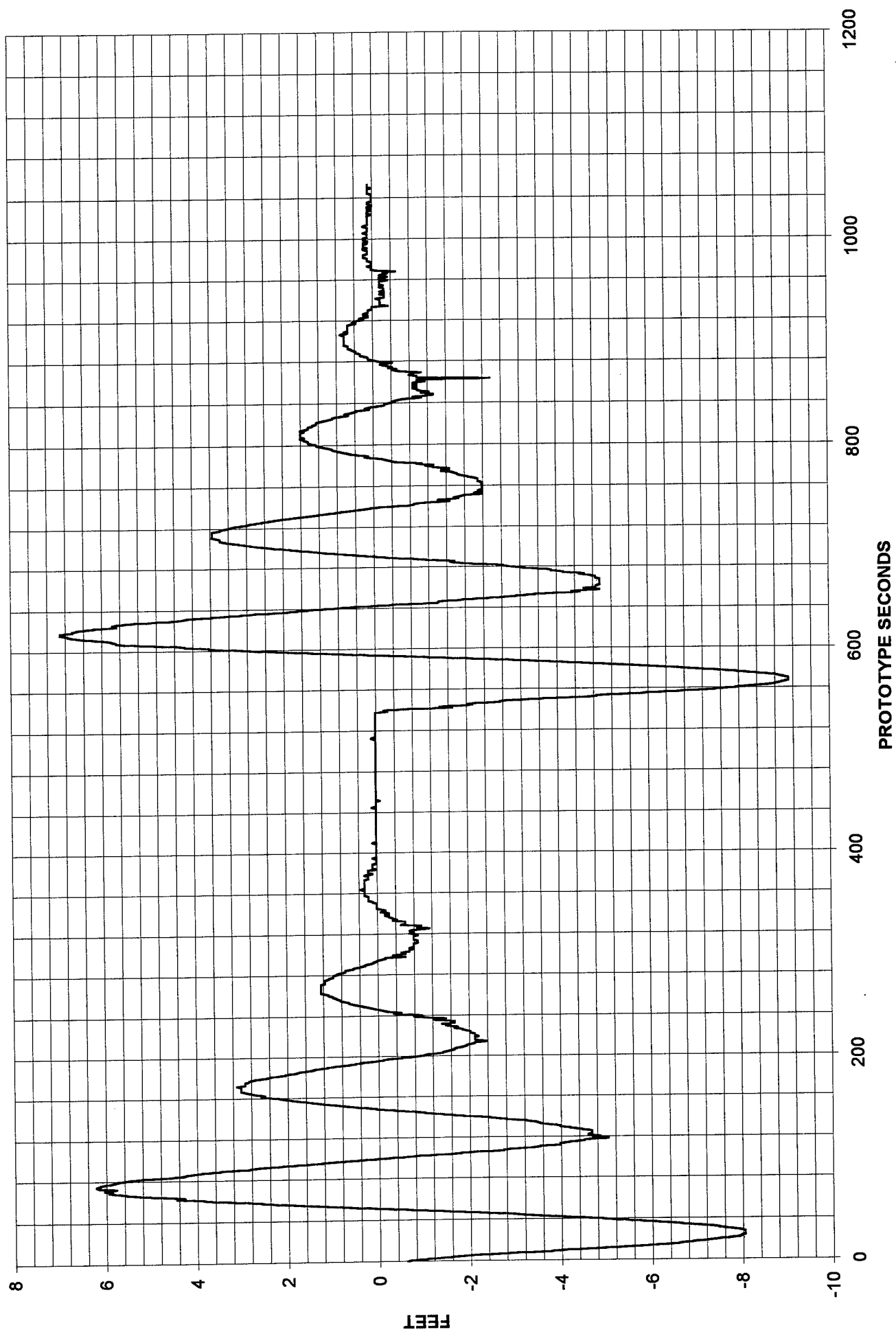
# A802 - PT SURGE FREE DECAY



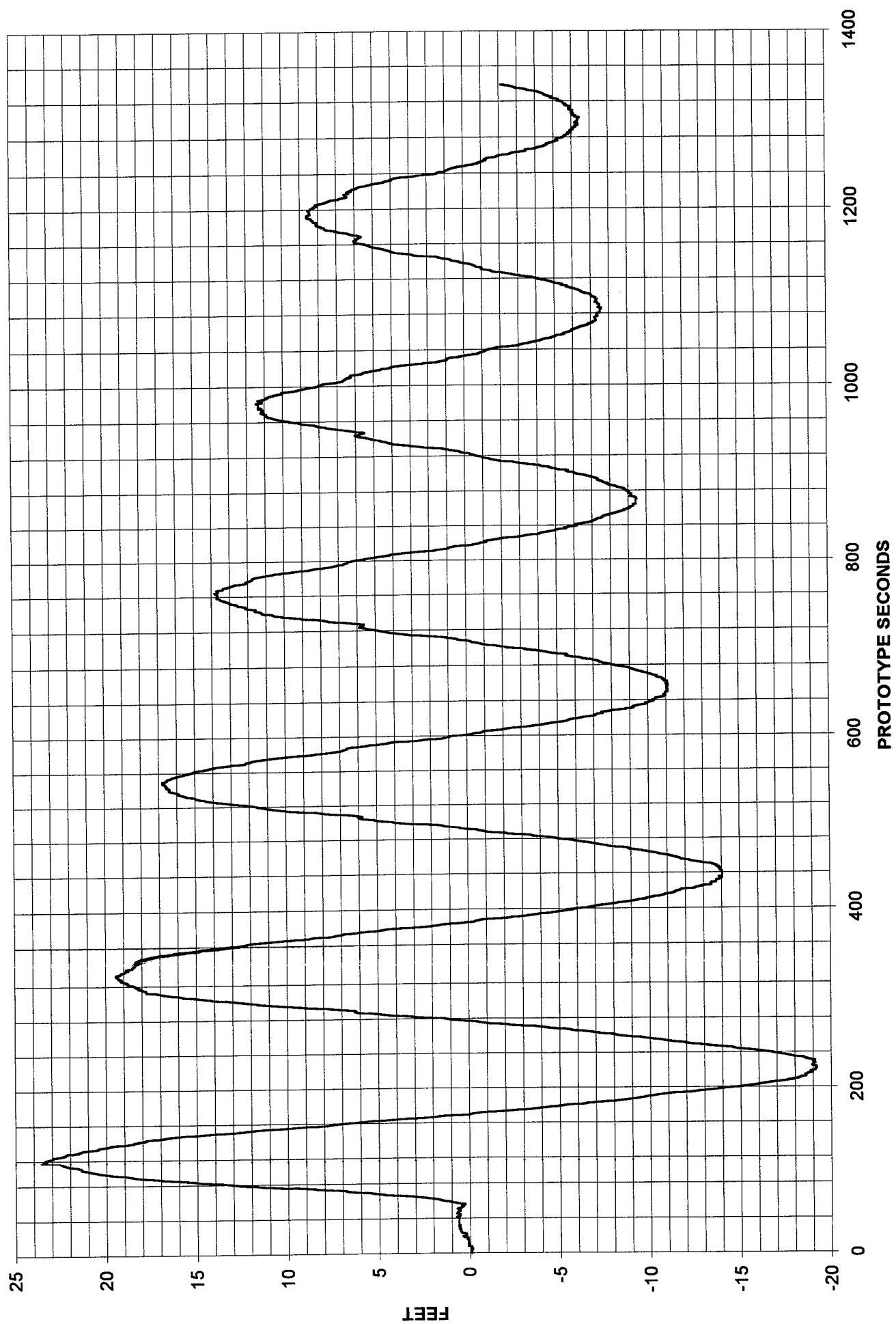
# A900 - PITCH FREE DECAY



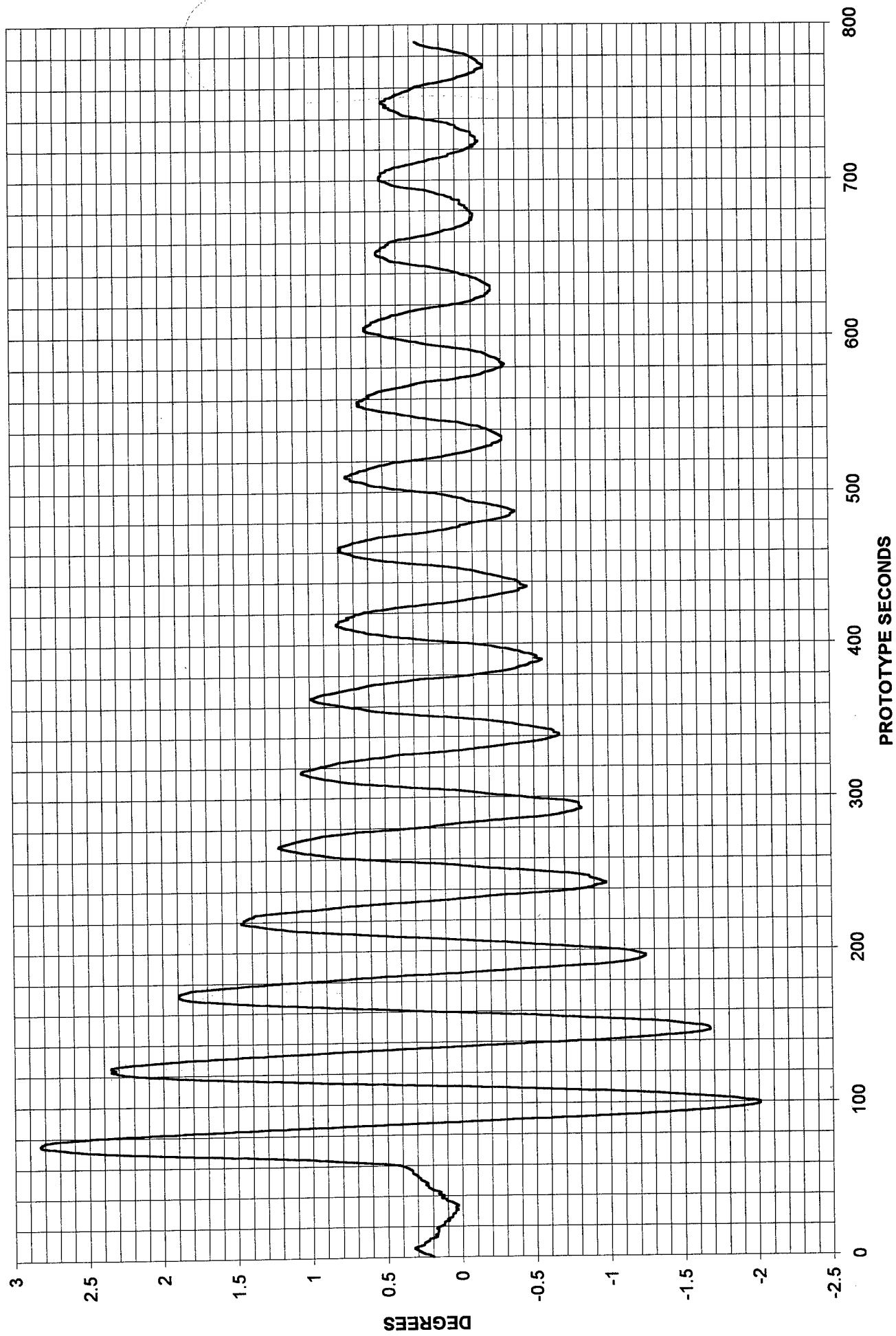
# A901 - HEAVE FREE DECAY



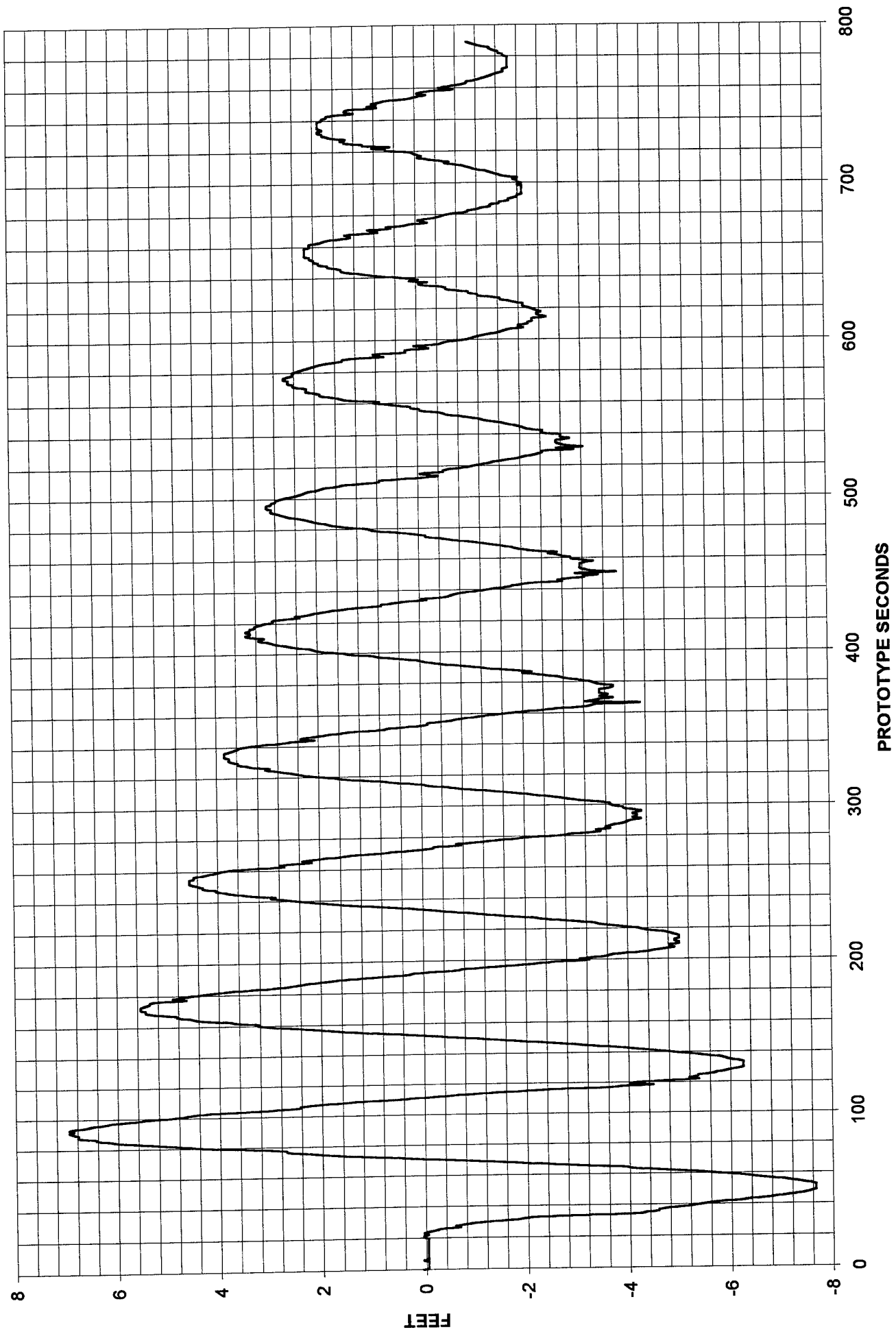
# A902 - SURGE FREE DECAY



# A1000 - PITCH FREE DECAY

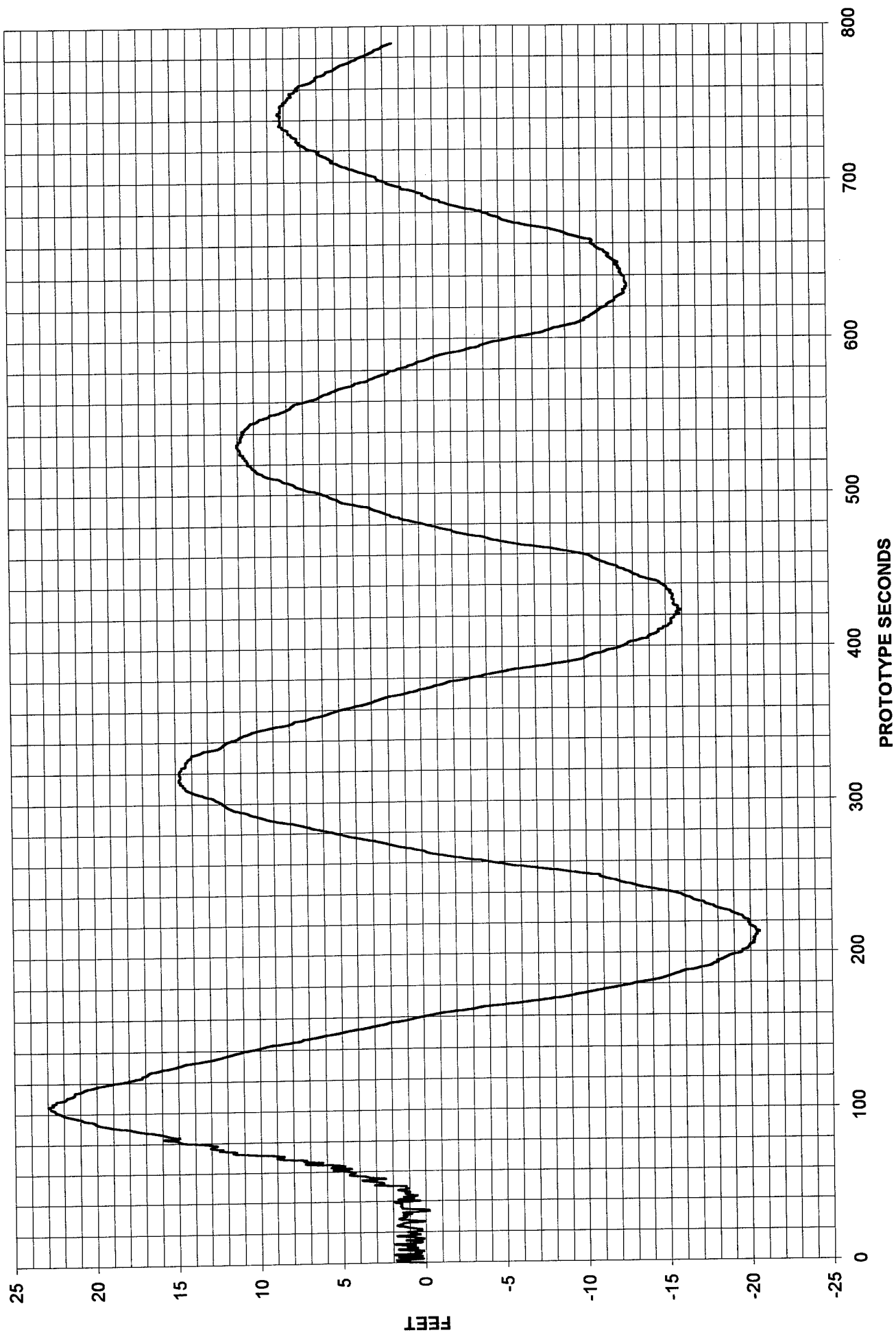


# A1001 - HEAVE FREE DECAY

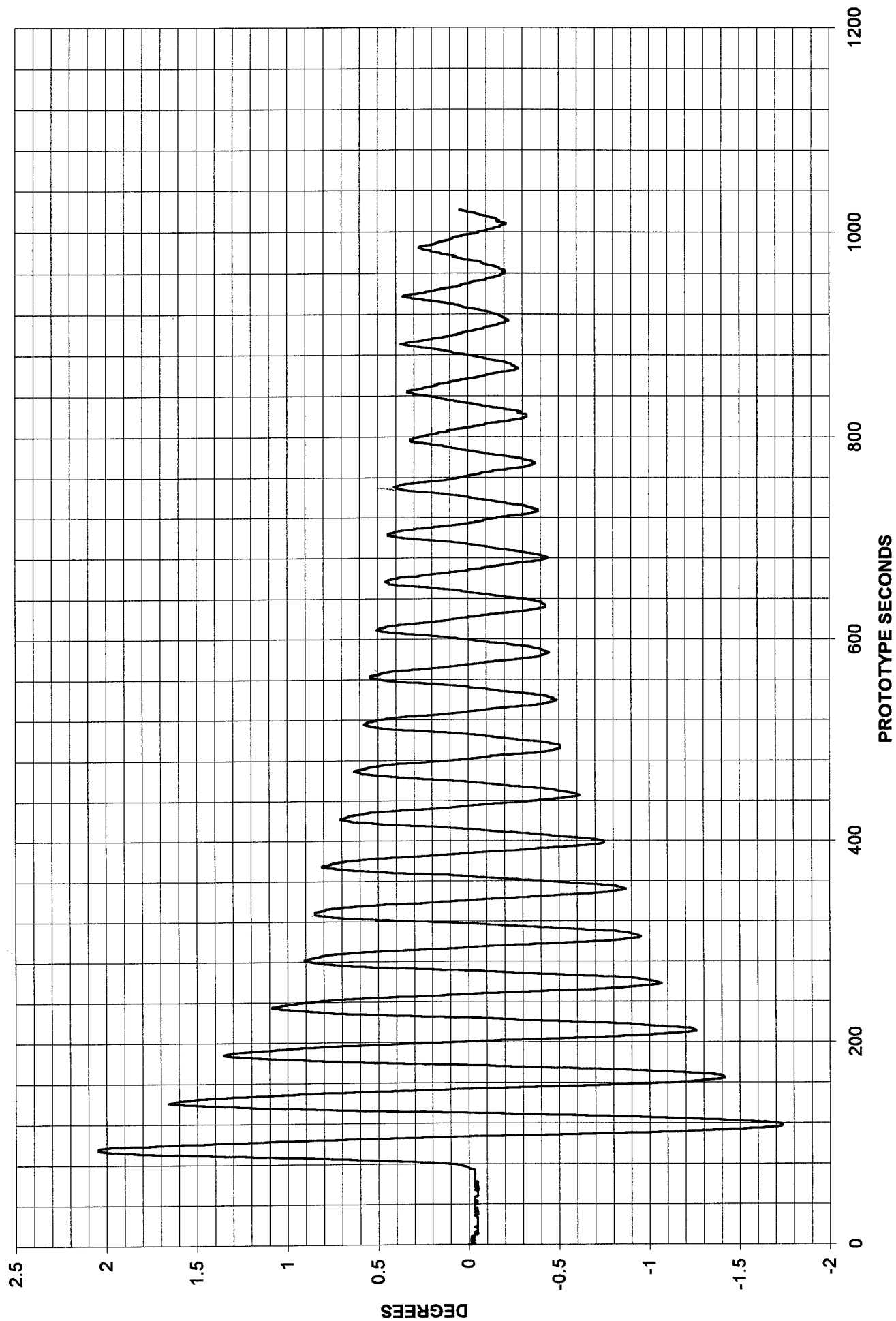




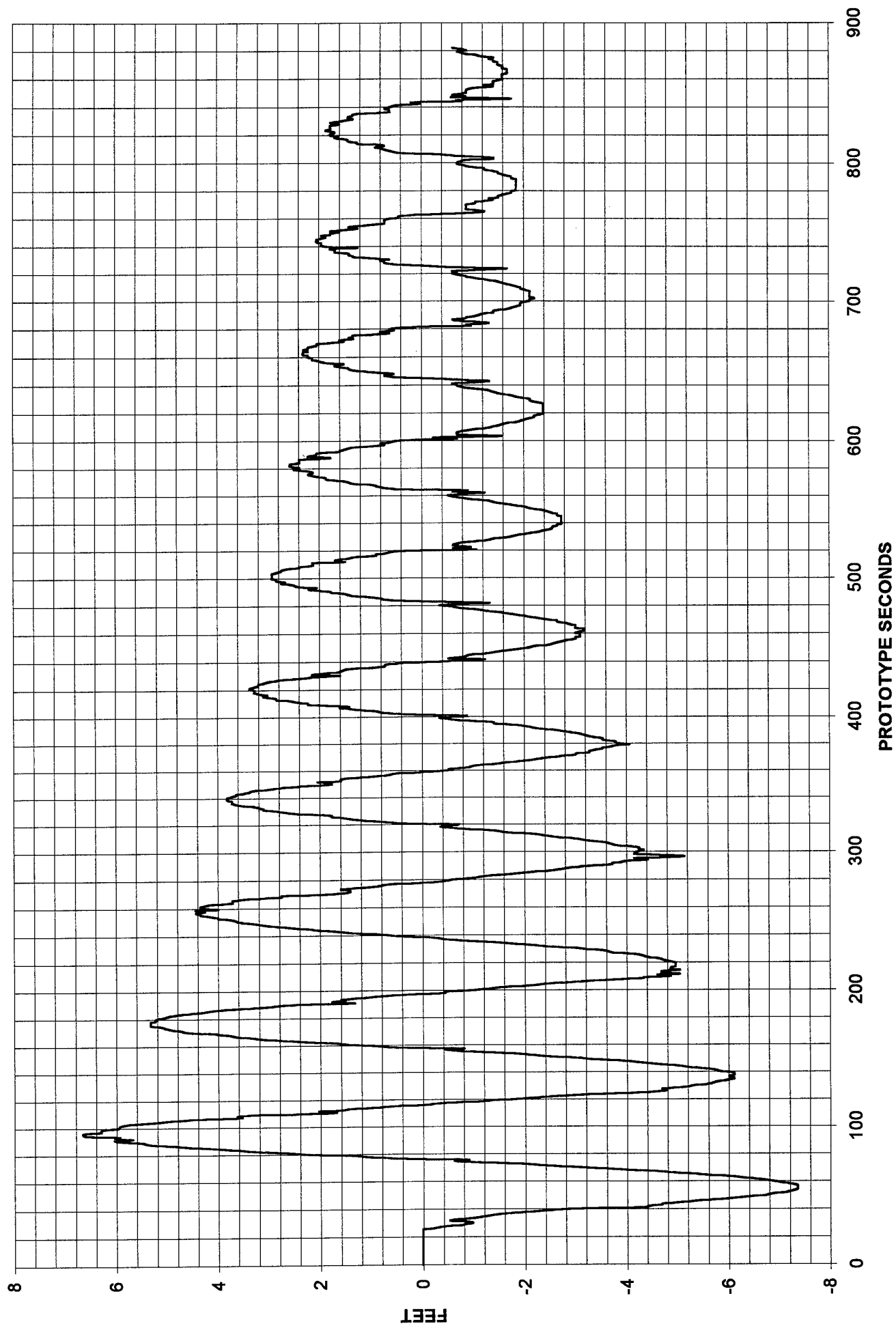
A1002 - SURGE FREE DECAY



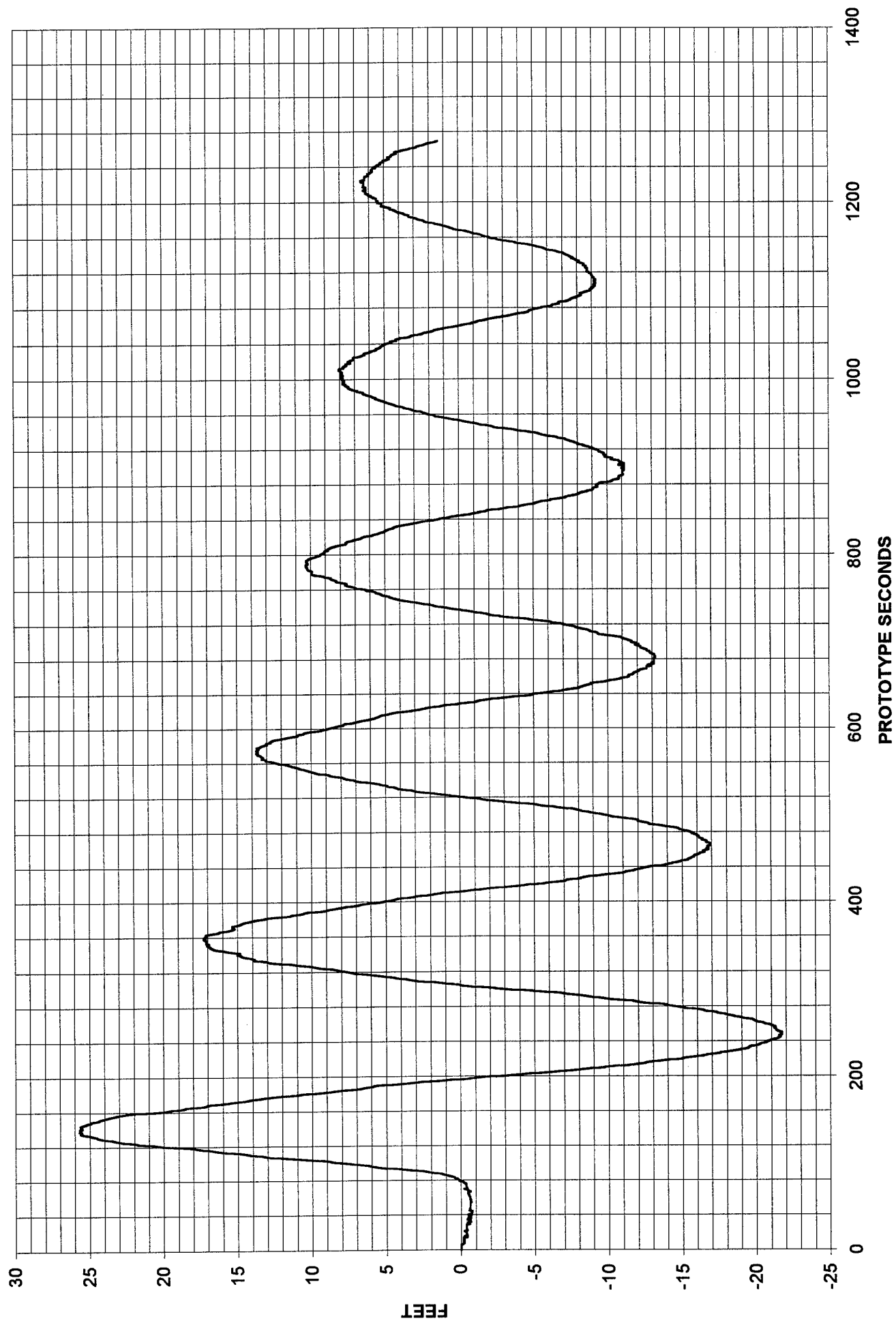
# A1100 - PITCH FREE DECAY



A1101 - HEAVE FREE DECAY



# A1102 - SURGE FREE DECAY



**APPENDIX E**  
**UNFILTERED STATISTICS**

ASOP100.HDR, 102.ZER, and 102.TST processed 17:35:35 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.001	0.021	0.010	-0.039	0.077	-0.079	-0.010
WAVE-2	FEET	0.010	0.110	0.272	-0.221	0.417	-0.398	0.550
AIRGAP	FEET	0.172	0.229	0.924	-0.861	1.023	-0.680	71.672
ML-1	KIPS	188.623	40.617	310.397	79.594	339.717	37.530	215.172
ML-2	KIPS	231.789	21.617	289.739	170.872	312.205	151.373	246.168
ML-3	KIPS	233.943	19.140	304.323	182.363	305.145	162.741	231.688
ML-4	KIPS	312.244	39.453	444.744	209.712	459.009	165.478	287.939
ML-5	KIPS	259.232	22.240	330.836	205.202	341.963	176.501	251.154
ML-6	KIPS	259.437	22.258	328.333	191.639	342.238	176.636	278.227
BT-1	KIPS	-5.669	28.595	87.908	-119.045	100.703	-112.041	315.650
BT-2	KIPS	56.482	16.596	109.467	-4.674	118.220	-5.257	-425.949
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	3.368	6.519	23.789	-13.694	27.617	-20.882	-5.685
MST Sway	FEET	0.683	0.845	2.309	-1.166	3.825	-2.459	21.224
MST Heave	FEET	-0.406	0.100	-0.019	-0.725	-0.033	-0.780	2.035
Roll	DEG	-0.136	0.057	-0.008	-0.254	0.076	-0.348	4.506
Pitch	DEG	-0.179	0.190	0.362	-0.776	0.528	-0.886	2.410
Yaw	DEG	0.069	0.385	0.990	-0.466	1.502	-1.363	1.867
Pt Surge	FEET	4.000	7.159	26.478	-14.310	30.633	-22.633	-14.691
Pt Sway	FEET	0.201	1.027	2.152	-2.050	4.022	-3.619	36.855
Pt Heave	FEET	-0.403	0.102	-0.004	-0.723	-0.022	-0.785	2.840

ASOP100.HDR, 103.ZER, and 103.TST processed 17:38:00 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.000	0.021	0.011	-0.038	0.077	-0.077	-0.011
WAVE-2	FEET	0.018	0.121	0.227	-0.266	0.468	-0.433	0.704
AIRGAP	FEET	0.042	0.132	0.558	-0.740	0.533	-0.449	71.822
ML-1	KIPS	180.411	9.069	203.544	156.528	214.146	146.675	192.122
ML-2	KIPS	232.156	29.152	319.456	148.584	340.603	123.710	234.831
ML-3	KIPS	228.238	35.341	334.813	121.383	359.704	96.771	230.276
ML-4	KIPS	299.525	8.064	322.876	283.704	329.524	269.526	292.445
ML-5	KIPS	271.088	36.227	389.465	171.700	405.853	136.322	264.218
ML-6	KIPS	256.530	33.918	371.049	170.280	382.705	130.355	260.309
BT-1	KIPS	-2.566	5.341	11.304	-14.565	17.301	-22.434	309.473
BT-2	KIPS	-3.781	24.011	90.641	-106.511	85.538	-93.100	-386.371
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	0.704	1.143	3.360	-1.738	4.956	-3.549	-3.643
MST Sway	FEET	0.850	6.089	19.901	-15.788	23.500	-21.799	21.707
MST Heave	FEET	0.086	0.073	0.423	-0.250	0.358	-0.186	1.621
Roll	DEG	0.064	0.173	0.706	-0.424	0.708	-0.581	4.346
Pitch	DEG	-0.008	0.059	0.138	-0.145	0.210	-0.226	2.258
Yaw	DEG	0.469	1.412	4.315	-3.274	5.723	-4.785	1.762
Pt Surge	FEET	0.721	1.207	3.437	-1.863	5.210	-3.767	-12.069
Pt Sway	FEET	1.073	6.672	22.378	-17.289	25.895	-23.748	36.807
Pt Heave	FEET	0.087	0.073	0.428	-0.249	0.360	-0.185	2.360

ASOP100.HDR, 104.ZER, and 104.TST processed 17:38:53 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.002	0.021	0.014	-0.036	0.080	-0.076	-0.014
WAVE-2	FEET	0.019	0.113	0.267	-0.226	0.441	-0.403	0.718
AIRGAP	FEET	0.255	4.482	12.919	-12.017	16.929	-16.419	71.902
ML-1	KIPS	174.541	16.541	220.640	122.335	236.076	113.007	171.092
ML-2	KIPS	231.541	12.890	263.737	189.445	279.492	183.590	230.938
ML-3	KIPS	226.906	14.617	260.766	178.007	281.281	172.531	225.404
ML-4	KIPS	302.919	14.732	344.638	261.942	357.723	248.115	300.275
ML-5	KIPS	279.638	15.193	330.836	242.892	336.158	223.118	279.217
ML-6	KIPS	251.785	14.211	294.159	212.997	304.650	198.920	251.316
BT-1	KIPS	8.839	152.801	485.842	-398.883	577.259	-559.582	305.754
BT-2	KIPS	1.665	150.595	474.512	-407.488	561.879	-558.548	-386.312
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-0.183	0.491	1.309	-1.187	1.645	-2.011	-2.881
MST Sway	FEET	0.031	0.782	1.773	-1.588	2.940	-2.879	21.809
MST Heave	FEET	-0.052	3.375	9.101	-10.088	12.504	-12.607	1.639
Roll	DEG	0.042	0.053	0.199	-0.121	0.239	-0.154	4.358
Pitch	DEG	-0.075	0.081	0.222	-0.237	0.226	-0.377	2.295
Yaw	DEG	0.047	0.196	0.627	-0.297	0.778	-0.684	1.725
Pt Surge	FEET	0.083	0.437	1.123	-0.886	1.708	-1.542	-11.428
Pt Sway	FEET	0.181	0.884	2.032	-1.746	3.468	-3.107	36.951
Pt Heave	FEET	-0.051	3.375	9.101	-10.088	12.504	-12.606	2.387



ASOP100.HDR, 105.ZER, and 105.TST processed 17:39:34 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.002	0.021	0.014	-0.035	0.082	-0.078	-0.014
WAVE-2	FEET	0.041	0.111	0.254	-0.238	0.454	-0.372	0.731
IRGAP	FEET	-0.006	1.742	4.924	-6.165	6.474	-6.485	71.837
ML-1	KIPS	175.029	5.179	186.447	160.803	194.295	155.763	172.583
ML-2	KIPS	233.100	18.024	297.168	193.159	300.151	166.049	232.053
ML-3	KIPS	225.320	23.347	304.323	164.940	312.171	138.469	228.555
ML-4	KIPS	294.426	3.513	305.466	288.056	307.493	281.359	300.345
ML-5	KIPS	281.630	23.857	343.399	196.826	370.377	192.884	276.852
ML-6	KIPS	250.775	23.444	306.974	174.552	337.987	163.562	252.124
T-1	KIPS	-1.359	21.889	60.912	-78.781	80.069	-82.787	306.430
T-2	KIPS	-18.588	174.710	516.295	-469.470	631.334	-668.511	-396.965
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-0.144	0.510	1.342	-1.433	1.752	-2.039	-2.934
MST Sway	FEET	0.752	5.706	15.837	-18.349	21.977	-20.474	21.709
MST Heave	FEET	0.176	0.407	1.496	-1.278	1.690	-1.339	1.634
Roll	DEG	-0.166	1.353	3.506	-4.676	4.865	-5.198	4.387
Pitch	DEG	-0.030	0.056	0.088	-0.157	0.178	-0.237	2.228
Yaw	DEG	0.271	0.698	1.500	-0.684	2.869	-2.326	1.748
Pt Surge	FEET	-0.044	0.523	1.515	-1.418	1.900	-1.988	-11.255
Pt Sway	FEET	0.164	2.659	5.431	-6.024	10.054	-9.726	36.958
Pt Heave	FEET	0.233	0.430	1.834	-0.954	1.834	-1.367	2.381

ASOP100.HDR, 106.ZER, and 106.TST processed 17:40:12 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.005	0.019	0.014	-0.036	0.076	-0.066	-0.014
WAVE-2	FEET	0.003	0.130	0.262	-0.231	0.487	-0.481	0.779
IRGAP	FEET	0.169	1.936	5.671	-5.364	7.373	-7.035	71.848
ML-1	KIPS	175.052	22.517	246.285	113.787	258.816	91.287	174.164
ML-2	KIPS	233.534	10.624	271.166	208.018	273.056	194.012	233.458
ML-3	KIPS	229.646	10.730	265.121	208.497	269.560	189.731	237.230
ML-4	KIPS	297.887	22.018	362.048	240.179	379.794	215.980	292.372
ML-5	KIPS	290.583	12.312	322.460	251.268	336.384	244.782	293.146
ML-6	KIPS	251.015	10.204	281.344	221.541	288.974	213.055	250.437
ST-1	KIPS	12.795	206.947	656.207	-569.991	782.640	-757.049	306.125
ST-2	KIPS	6.645	111.072	353.672	-310.422	419.832	-406.542	-431.495
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	0.366	5.130	15.342	-14.982	19.450	-18.719	-2.929
MST Sway	FEET	0.213	0.659	2.055	-1.833	2.664	-2.237	21.626
MST Heave	FEET	0.071	0.176	0.592	-0.598	0.726	-0.583	1.753
Roll	DEG	0.000	0.038	0.107	-0.155	0.141	-0.141	4.321
Pitch	DEG	0.068	1.243	4.082	-3.280	4.693	-4.558	2.209
Yaw	DEG	0.378	0.575	1.586	-0.514	2.518	-1.763	1.718
Pt Surge	FEET	0.127	1.355	3.900	-3.470	5.168	-4.914	-11.170
Pt Sway	FEET	0.217	0.632	2.109	-1.613	2.568	-2.135	36.651
Pt Heave	FEET	0.119	0.156	0.637	-0.380	0.700	-0.462	2.479

SOP100.HDR, 107.ZER, and 107.TST processed 17:41:33 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.004	0.021	0.015	-0.035	0.081	-0.074	-0.015
VE-2	FEET	-0.009	0.123	0.245	-0.248	0.448	-0.466	0.795
AIRGAP	FEET	0.010	0.074	0.306	-0.181	0.285	-0.264	71.749
ML-1	KIPS	183.001	9.487	203.544	160.803	218.291	147.710	168.779
ML-2	KIPS	234.246	10.457	256.307	215.447	273.146	195.345	230.978
ML-3	KIPS	239.258	15.309	273.833	208.497	296.206	182.309	228.972
ML-4	KIPS	298.822	8.519	318.523	279.351	330.512	267.132	297.481
ML-5	KIPS	297.552	13.695	326.648	268.019	348.498	246.607	289.749
ML-6	KIPS	249.763	12.289	289.888	225.812	295.479	204.048	244.749
PT-1	KIPS	-2.333	6.591	12.059	-18.984	22.184	-26.850	303.545
PT-2	KIPS	0.688	10.766	25.696	-26.186	40.737	-39.361	-404.437
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	0.135	1.149	3.224	-3.038	4.408	-4.138	-3.218
ST Sway	FEET	0.087	1.125	2.784	-2.214	4.271	-4.098	21.870
MST Heave	FEET	0.115	0.084	0.336	-0.028	0.427	-0.197	1.713
Roll	DEG	0.002	0.049	0.124	-0.170	0.183	-0.180	4.330
Pitch	DEG	-0.009	0.052	0.116	-0.147	0.183	-0.201	2.260
Yaw	DEG	0.065	5.079	11.931	-12.488	18.959	-18.830	1.791
Pt Surge	FEET	0.172	1.211	3.254	-3.222	4.676	-4.333	-11.657
Pt Sway	FEET	0.095	1.231	3.077	-2.426	4.673	-4.483	36.910
Pt Heave	FEET	0.115	0.084	0.336	-0.028	0.428	-0.197	2.448

ASOP100.HDR, 111.ZER, and 111.TST processed 17:41:58 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.003	0.020	0.014	-0.036	0.078	-0.072	-0.014
WAVE-2	FEET	0.260	2.959	6.703	-5.946	11.269	-10.749	0.799
IRGAP	FEET	-0.072	6.484	13.705	-11.285	24.049	-24.193	71.765
ML-1	KIPS	188.770	14.628	216.366	160.803	243.187	134.353	192.842
ML-2	KIPS	241.623	7.898	256.307	226.591	271.005	212.241	232.821
ML-3	KIPS	226.706	6.990	243.343	208.497	252.709	200.702	220.707
ML-4	KIPS	293.019	13.162	314.171	270.646	341.983	244.056	312.389
ML-5	KIPS	300.019	7.913	314.084	280.582	329.457	270.582	284.341
ML-6	KIPS	260.243	9.188	277.072	242.899	294.423	226.062	231.396
ST-1	KIPS	-17.911	89.047	192.165	-247.610	313.343	-349.164	299.349
ST-2	KIPS	-13.069	46.001	108.340	-125.130	158.056	-184.194	218.519
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-1.853	2.167	2.426	-6.301	6.209	-9.915	-3.148
MST Sway	FEET	-0.049	0.297	0.569	-0.680	1.056	-1.154	21.860
MST Heave	FEET	1.011	0.684	2.506	-1.251	3.556	-1.534	1.812
Roll	DEG	0.092	0.025	0.159	0.023	0.186	-0.002	4.340
Pitch	DEG	0.084	0.309	0.743	-0.498	1.232	-1.064	2.254
Yaw	DEG	0.083	0.043	0.155	0.015	0.242	-0.076	2.169
Pt Surge	FEET	-2.149	2.067	1.174	-5.092	5.538	-9.837	-11.669
Pt Sway	FEET	0.275	0.299	0.958	-0.327	1.388	-0.839	36.879
Pt Heave	FEET	1.015	0.684	2.508	-1.247	3.561	-1.532	2.549

SOP100.HDR, 112.ZER, and 112.TST processed 17:42:33 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.003	0.020	0.013	-0.037	0.077	-0.072	-0.013
VE-2	FEET	0.395	7.510	11.819	-12.711	28.334	-27.543	0.774
AIRGAP	FEET	-1.480	6.510	8.562	-12.480	22.737	-25.697	71.662
ML-1	KIPS	227.299	20.430	289.026	186.447	303.300	151.298	162.670
ML-2	KIPS	266.100	12.714	300.883	241.449	313.395	218.806	233.208
ML-3	KIPS	209.378	11.715	238.987	182.363	252.956	165.799	230.568
ML-4	KIPS	262.255	20.905	318.523	214.065	340.023	184.488	298.224
ML-5	KIPS	284.278	13.965	322.460	255.455	336.226	232.330	299.093
ML-6	KIPS	283.761	11.774	315.518	259.986	327.559	239.963	242.827
MT-1	KIPS	16.390	101.632	194.692	-198.518	394.461	-361.680	296.821
MT-2	KIPS	-399.914	268.923	86.194	-686.852	600.480	%-1400.308	282.17
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-8.358	2.942	-1.077	-16.640	2.585	-19.301	-2.840
ST Sway	FEET	0.016	0.559	1.359	-1.272	2.094	-2.062	21.327
ST Heave	FEET	1.681	2.197	6.012	-2.617	9.853	-6.492	2.134
Roll	DEG	-0.061	0.049	0.056	-0.229	0.120	-0.243	4.530
Pitch	DEG	-0.152	0.980	1.639	-1.806	3.495	-3.799	2.362
Yaw	DEG	0.181	0.099	0.400	-0.160	0.551	-0.188	2.204
Pt Surge	FEET	-7.820	3.503	0.591	-17.269	5.211	-20.851	-11.772
Pt Sway	FEET	-0.199	0.705	1.468	-1.866	2.424	-2.822	36.994
Pt Heave	FEET	1.711	2.196	6.013	-2.607	9.882	-6.459	2.938

SOP100.HDR, 113.ZER, and 113.TST processed 17:43:25 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	-0.002	0.020	0.009	-0.040	0.074	-0.078	-0.009
VE-2	FEET	0.066	6.523	9.062	-10.103	24.332	-24.199	0.849
AIRGAP	FEET	0.083	2.999	4.085	-5.706	11.239	-11.072	71.703
ML-1	KIPS	169.753	27.526	220.640	118.061	272.150	67.355	173.733
ML-2	KIPS	233.975	18.751	267.451	200.588	303.729	164.220	237.016
ML-3	KIPS	227.783	20.457	265.121	191.074	303.884	151.682	221.784
ML-4	KIPS	303.428	27.299	353.343	253.237	404.981	201.876	287.471
ML-5	KIPS	308.749	21.381	347.587	272.207	388.288	229.211	296.629
ML-6	KIPS	246.480	21.802	285.616	208.726	327.582	165.377	241.894
RT-1	KIPS	-4.193	37.023	58.521	-75.999	133.534	-141.920	293.300
RT-2	KIPS	12.881	51.937	96.266	-69.758	206.088	-180.325	-412.748
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	0.698	2.351	5.609	-3.439	9.442	-8.047	-3.543
ST Sway	FEET	0.432	0.336	1.268	-0.404	1.681	-0.817	21.149
MST Heave	FEET	0.064	4.555	6.807	-6.661	17.008	-16.880	2.181
Roll	DEG	-0.027	0.045	0.070	-0.142	0.141	-0.195	4.548
Pitch	DEG	-0.035	0.703	0.999	-1.214	2.582	-2.652	2.330
Yaw	DEG	0.003	0.015	0.027	-0.029	0.060	-0.053	2.185
Pt Surge	FEET	0.822	4.744	9.745	-6.959	18.471	-16.826	-12.361
Pt Sway	FEET	0.338	0.449	1.214	-0.813	2.007	-1.332	36.890
Pt Heave	FEET	0.079	4.554	6.807	-6.661	17.022	-16.863	2.986

SOP100.HDR, 121.ZER, and 121.TST processed 17:46:59 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.001	0.021	0.012	-0.037	0.078	-0.077	-0.012
VE-2	FEET	0.405	2.438	9.578	-9.149	9.475	-8.664	0.716
AIRGAP	FEET	0.007	3.997	12.256	-11.599	14.876	-14.863	71.592
ML-1	KIPS	175.420	13.778	224.914	143.706	226.674	124.166	171.404
ML-2	KIPS	235.632	7.105	256.307	215.447	262.063	209.202	231.943
ML-3	KIPS	228.355	8.414	252.054	204.141	259.654	197.056	228.081
ML-4	KIPS	302.677	13.033	335.933	270.646	351.161	254.192	300.462
ML-5	KIPS	312.037	8.818	335.023	284.770	344.841	279.233	312.370
ML-6	KIPS	246.664	8.114	268.529	225.812	276.850	216.479	239.704
BT-1	KIPS	-0.264	91.718	276.372	-292.749	340.926	-341.454	292.749
BT-2	KIPS	41.329	113.762	840.535	-202.300	464.523	-381.865	-326.900
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-0.791	1.989	5.457	-6.617	6.609	-8.192	-2.979
ST Sway	FEET	0.082	0.367	1.112	-0.974	1.449	-1.285	21.577
MST Heave	FEET	0.316	1.419	4.067	-3.741	5.595	-4.964	2.194
Roll	DEG	-0.042	0.050	0.125	-0.176	0.142	-0.226	4.520
Pitch	DEG	-0.027	0.419	1.184	-1.288	1.531	-1.584	2.324
Yaw	DEG	0.004	0.032	0.120	-0.105	0.123	-0.115	2.205
Pt Surge	FEET	-0.698	1.448	3.606	-5.151	4.689	-6.085	-11.776
St Sway	FEET	-0.066	0.347	1.002	-1.065	1.226	-1.358	37.214
Pt Heave	FEET	0.321	1.419	4.072	-3.741	5.601	-4.958	2.990

ASOP100.HDR, 122.ZER, and 122.TST processed 17:50:36 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.000	0.021	0.012	-0.037	0.079	-0.079	-0.012
WAVE-2	FEET	0.437	5.700	26.050	-16.879	21.642	-20.767	0.890
IRGAP	FEET	-1.377	8.440	24.446	-31.593	30.021	-32.775	71.356
ML-1	KIPS	215.167	52.095	370.234	92.417	408.961	21.373	164.101
ML-2	KIPS	257.650	27.272	330.599	189.445	359.103	156.197	231.534
ML-3	KIPS	218.470	29.002	295.611	134.450	326.356	110.584	227.806
ML-4	KIPS	278.339	47.402	418.629	144.426	454.673	102.005	302.005
ML-5	KIPS	303.465	29.999	389.465	217.765	415.061	191.870	311.249
ML-6	KIPS	273.538	31.035	358.234	195.911	388.990	158.087	242.832
BT-1	KIPS	16.231	212.940	708.081	-823.372	808.368	-775.906	295.641
BT-2	KIPS	533.462	308.462	987.807	-407.828	1680.941	-614.016	-245.890
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-6.286	7.989	14.523	-32.881	23.434	-36.007	-2.800
MST Sway	FEET	-0.048	0.687	2.207	-2.192	2.508	-2.604	21.560
MST Heave	FEET	1.304	3.984	14.584	-9.717	16.125	-13.518	2.277
Roll	DEG	-0.148	0.127	0.239	-0.617	0.325	-0.621	4.541
Pitch	DEG	-0.037	1.190	3.811	-4.174	4.392	-4.465	2.363
Yaw	DEG	0.054	0.264	0.634	-0.738	1.036	-0.927	2.222
Pt Surge	FEET	-6.155	7.926	16.430	-27.695	23.331	-35.642	-11.742
Pt Sway	FEET	-0.568	0.626	1.342	-2.468	1.762	-2.898	37.266
Pt Heave	FEET	1.348	3.986	14.645	-9.715	16.176	-13.479	3.085



ASOP100.HDR, 123.ZER, and 123.TST processed 17:54:09 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
E-1	FEET	0.002	0.022	0.014	-0.035	0.082	-0.078	-0.014
E-2	FEET	0.323	12.078	49.449	-47.743	45.253	-44.608	0.981
IRGAP	FEET	-2.400	12.489	35.182	-46.226	44.059	-48.858	71.114
ML-1	KIPS	300.967	124.121	1665.293	32.579	762.698	-160.765	166.026
ML-2	KIPS	310.146	59.799	876.646	159.728	532.599	87.693	231.461
ML-3	KIPS	195.251	41.975	343.524	82.181	351.396	39.106	239.084
ML-4	KIPS	224.388	67.861	453.449	83.492	476.831	-28.054	298.212
ML-5	KIPS	285.570	44.840	431.343	163.324	452.373	118.766	322.491
ML-6	KIPS	328.591	62.100	725.599	157.465	559.602	97.581	241.981
ST-1	KIPS	8.829	312.439	935.658	%-1439.129	1171.103	%-1153.445	295.
ST-2	KIPS	-44.616	228.553	595.225	-971.621	805.602	-894.833	-216.484
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-20.882	14.490	15.654	-68.629	33.020	-74.784	-2.937
MST Sway	FEET	-0.488	1.308	3.536	-4.593	4.378	-5.353	21.607
MST Heave	FEET	2.269	6.197	30.236	-14.378	25.321	-20.783	2.361
Roll	DEG	-0.270	0.176	0.444	-0.996	0.383	-0.923	4.577
Pitch	DEG	-0.035	1.929	5.847	-8.890	7.142	-7.212	2.375
Yaw	DEG	0.020	0.481	1.517	-1.172	1.810	-1.770	2.572
Pt Surge	FEET	-20.758	15.587	22.385	-66.522	37.224	-78.740	-12.023
Pt Sway	FEET	-1.433	1.415	2.843	-5.971	3.832	-6.698	37.380
Pt Heave	FEET	2.387	6.202	30.631	-14.328	25.458	-20.683	3.180

ASOP100.HDR, 130.ZER, and 130.TST processed 17:55:44 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.002	0.020	0.013	-0.037	0.078	-0.073	-0.013
WAVE-2	FEET	-0.067	0.168	0.479	-0.507	0.558	-0.691	0.726
IRGAP	FEET	0.292	0.098	0.577	-0.073	0.658	-0.073	70.289
ML-1	KIPS	102.367	12.719	143.706	53.950	149.681	55.053	85.388
ML-2	KIPS	206.530	9.874	234.020	178.301	243.263	169.797	189.279
ML-3	KIPS	214.520	9.259	238.987	195.430	248.962	180.078	232.792
ML-4	KIPS	183.403	10.675	227.122	153.131	223.112	143.693	210.776
ML-5	KIPS	194.068	10.447	221.953	167.512	232.932	155.204	228.281
ML-6	KIPS	236.454	9.070	255.714	212.997	270.196	202.712	218.914
BT-1	KIPS	52.648	8.845	79.370	22.458	85.553	19.744	251.755
BT-2	KIPS	22.308	11.875	63.335	-9.300	66.483	-21.867	-307.182
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-5.863	1.695	1.217	-11.307	0.443	-12.169	-4.692
ST Sway	FEET	-0.308	1.461	2.475	-3.494	5.128	-5.744	23.370
ST Heave	FEET	0.146	0.109	0.413	-0.112	0.550	-0.258	2.917
Roll	DEG	0.026	0.083	0.224	-0.207	0.335	-0.282	4.446
Pitch	DEG	0.288	0.052	0.445	0.106	0.480	0.096	2.177
Yaw	DEG	0.229	0.276	0.937	-0.743	1.257	-0.800	2.843
Pt Surge	FEET	-6.882	1.820	0.838	-12.701	-0.113	-13.651	-13.135
Pt Sway	FEET	-0.219	1.652	3.082	-3.943	5.925	-6.363	38.674
Pt Heave	FEET	0.149	0.109	0.416	-0.109	0.553	-0.255	3.672

ASOP100.HDR, 131.ZER, and 131.TST processed 17:57:56 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.000	0.021	0.012	-0.038	0.078	-0.079	-0.012
WAVE-2	FEET	-0.267	0.190	0.335	-0.760	0.439	-0.974	0.705
AIRGAP	FEET	1.764	0.588	2.144	-0.398	3.953	-0.425	69.911
ML-1	KIPS	182.934	48.005	353.138	45.401	361.511	4.357	61.516
ML-2	KIPS	252.313	26.570	345.458	174.586	351.154	153.471	189.279
ML-3	KIPS	186.995	19.237	256.410	138.806	258.556	115.433	249.312
ML-4	KIPS	110.177	34.160	231.475	44.320	237.251	-16.896	216.257
ML-5	KIPS	229.421	43.173	276.394	117.258	390.024	68.817	230.918
ML-6	KIPS	303.017	28.260	375.321	208.726	408.144	197.890	216.288
BT-1	KIPS	165.621	54.454	248.075	-15.790	368.188	-36.946	248.612
BT-2	KIPS	67.954	26.763	132.396	-33.627	167.511	-31.604	-303.608
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
IST Surge	FEET	-19.054	7.159	1.726	-41.729	7.577	-45.685	-4.469
MST Sway	FEET	-0.108	1.257	3.644	-3.725	4.568	-4.783	23.013
MST Heave	FEET	-1.052	0.425	0.265	-1.444	0.528	-2.633	3.398
Roll	DEG	-0.084	0.094	0.267	-0.350	0.267	-0.434	4.449
Pitch	DEG	0.724	0.269	1.471	-0.108	1.725	-0.276	2.199
Yaw	DEG	0.023	0.284	0.831	-0.849	1.079	-1.033	2.921
Pt Surge	FEET	-21.615	8.017	1.801	-46.780	8.207	-51.438	-13.009
Pt Sway	FEET	-0.404	1.455	3.906	-4.717	5.007	-5.815	38.313
Pt Heave	FEET	-1.033	0.421	0.266	-1.425	0.533	-2.600	4.157

RSOP100.HDR, 132.ZER, and 132.TST processed 17:59:09 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.002	0.021	0.015	-0.035	0.082	-0.077	-0.015
WAVE-2	FEET	-0.090	0.152	0.319	-0.447	0.475	-0.655	0.338
AIRGAP	FEET	5.278	0.622	5.740	-0.048	7.591	2.965	70.318
ML-1	KIPS	357.470	40.664	395.879	19.757	508.741	206.199	26.511
ML-2	KIPS	332.151	19.266	352.887	174.586	403.819	260.482	175.547
ML-3	KIPS	148.756	14.475	256.410	125.739	202.604	94.907	260.187
ML-4	KIPS	36.894	20.104	209.712	0.795	111.681	-37.893	204.782
ML-5	KIPS	198.435	15.447	318.272	180.075	255.898	140.971	319.766
ML-6	KIPS	411.613	24.246	435.125	212.997	501.810	321.416	219.240
T-1	KIPS	397.033	46.863	430.911	-3.690	571.363	222.702	283.077
T-2	KIPS	187.580	24.635	221.389	3.483	279.221	95.938	-278.459
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-48.695	5.630	0.280	-50.883	-27.752	-69.637	-3.180
MST Sway	FEET	-3.804	1.297	0.051	-6.090	1.020	-8.628	24.272
MST Heave	FEET	-2.576	0.320	-0.049	-2.951	-1.384	-3.767	2.740
Roll	DEG	-0.283	0.068	0.011	-0.438	-0.028	-0.537	4.430
Pitch	DEG	2.138	0.251	2.337	-0.007	3.072	1.204	2.223
Yaw	DEG	-0.481	0.438	0.577	-1.299	1.147	-2.109	3.175
Pt Surge	FEET	-56.261	6.495	0.304	-58.816	-32.100	-80.421	-11.870
Pt Sway	FEET	-4.739	1.421	0.092	-7.206	0.547	-10.024	39.463
Pt Heave	FEET	-2.430	0.304	-0.049	-2.792	-1.298	-3.563	3.498

SOP100.HDR, 133.ZER, and 133.TST processed 17:59:56 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	-0.001	0.022	0.011	-0.038	0.079	-0.081	-0.011
E-2	FEET	0.055	0.155	0.445	-0.377	0.633	-0.523	0.213
AIRGAP	FEET	10.850	1.149	11.909	-0.045	15.126	6.575	70.532
L-1	KIPS	889.204	95.165	968.611	6.934	1243.218	535.189	10.353
ML-2	KIPS	429.561	32.286	479.183	156.013	549.664	309.458	157.361
ML-3	KIPS	147.176	13.447	273.833	134.450	197.197	97.155	280.899
L-4	KIPS	25.344	17.136	192.303	18.205	89.092	-38.403	190.755
L-5	KIPS	182.324	13.862	309.897	171.700	233.890	130.758	313.247
ML-6	KIPS	509.363	30.312	533.373	217.269	622.125	396.600	219.895
PT-1	KIPS	757.691	80.312	841.648	-1.686	1056.452	458.930	286.247
PT-2	KIPS	376.341	45.266	446.342	0.154	544.731	207.951	-233.624
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-65.969	6.715	0.036	-67.403	-40.988	-90.949	-3.520
ST Sway	FEET	-3.565	0.942	0.317	-5.577	-0.061	-7.069	23.475
MST Heave	FEET	-5.369	0.585	0.013	-5.890	-3.193	-7.545	2.284
Roll	DEG	-0.262	0.092	0.029	-0.488	0.079	-0.603	4.329
Pitch	DEG	3.677	0.389	4.062	-0.011	5.124	2.230	2.247
Yaw	DEG	-0.648	0.401	0.495	-1.577	0.843	-2.140	3.034
Pt Surge	FEET	-78.972	8.035	0.076	-80.791	-49.082	-108.863	-12.238
Pt Sway	FEET	-4.342	1.019	0.418	-6.408	-0.552	-8.131	38.328
Pt Heave	FEET	-4.945	0.543	0.013	-5.481	-2.926	-6.964	3.017

ML-5	KIPS	190.959	21.657	230.329	154.948	271.523	110.396	200.194
ML-6	KIPS	138.561	22.325	179.411	102.520	221.609	55.512	122.953
BT-1	KIPS	-4.730	0.739	0.398	-9.950	-1.981	-7.480	-1133.466
BT-2	KIPS	2.269	2.390	8.708	-1.669	11.159	-6.621	-812.884
EX-1	FEET	1.043	0.030	1.117	0.972	1.154	0.932	4.831
EX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	38.575	6.022	52.584	21.039	60.976	16.174	13.461
MST Sway	FEET	0.075	0.278	0.693	-0.423	1.108	-0.959	28.819
MST Heave	FEET	1.925	4.364	8.927	-5.217	18.158	-14.308	1.724
Roll	DEG	0.148	0.043	0.285	0.036	0.309	-0.012	5.072
Pitch	DEG	-5.257	0.807	-2.814	-7.154	-2.255	-8.260	0.521
Yaw	DEG	-0.820	0.093	-0.594	-1.042	-0.474	-1.166	-1.926
Pt Surge	FEET	57.141	8.450	75.564	31.275	88.577	25.706	12.230
Pt Sway	FEET	0.334	0.296	0.992	-0.424	1.434	-0.767	46.781
Pt Heave	FEET	2.798	4.295	10.029	-4.753	18.776	-13.181	2.525

ASOP100.HDR, ZERO1.ZER, and 202SURGE.TST processed 15:13:37 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.016	0.007	-0.042	0.062	-0.060	-0.007
WAVE-2	FEET	-0.988	0.162	-0.509	-1.550	-0.385	-1.590	0.674
AIRGAP	FEET	0.534	0.443	2.108	-1.354	2.183	-1.115	-18.984
ML-1	KIPS	291.174	51.093	448.783	175.239	481.239	101.109	305.495
ML-2	KIPS	292.561	32.804	390.033	215.447	414.591	170.532	273.192
ML-3	KIPS	253.865	24.662	326.678	196.007	345.607	162.123	187.204
ML-4	KIPS	163.619	52.175	313.376	30.467	357.710	-30.473	125.825
ML-5	KIPS	255.192	33.889	351.775	163.324	381.258	129.126	200.194
ML-6	KIPS	190.933	26.422	281.931	128.150	289.224	92.642	122.953
BT-1	KIPS	26.401	0.973	31.441	21.093	30.021	22.781	-1133.466
BT-2	KIPS	26.134	3.710	34.649	19.084	39.935	12.333	-812.884
EX-1	FEET	-0.224	0.029	-0.166	-0.486	-0.115	-0.333	4.831
EX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-1.349	8.475	19.718	-25.929	30.178	-32.877	13.461
MST Sway	FEET	-0.801	1.518	1.798	-6.242	4.847	-6.448	28.819
MST Heave	FEET	0.856	0.267	2.304	0.133	1.849	-0.137	1.724
Roll	DEG	-0.412	0.105	-0.152	-0.800	-0.021	-0.802	5.072
Pitch	DEG	1.603	0.365	3.510	0.421	2.962	0.243	0.521
Yaw	DEG	-0.297	1.040	2.878	-3.814	3.572	-4.167	-1.926
Pt Surge	FEET	-7.026	9.389	17.250	-35.805	27.900	-41.953	12.230
Pt Sway	FEET	-2.209	1.715	0.811	-8.264	4.172	-8.591	46.781
Pt Heave	FEET	0.945	0.281	2.362	0.190	1.992	-0.102	2.525

ASOP100.HDR, ZERO1.ZER, and 203SWAY.TST processed 15:16:01 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.016	0.007	-0.042	0.062	-0.060	-0.007
WAVE-2	FEET	-0.706	0.105	-0.455	-0.947	-0.316	-1.097	0.674
AIRGAP	FEET	0.725	0.358	2.216	-0.489	2.057	-0.607	-18.984
ML-1	KIPS	283.294	13.096	320.559	256.447	332.011	234.577	305.495
ML-2	KIPS	287.653	45.726	442.037	133.726	457.754	117.552	273.192
ML-3	KIPS	256.909	54.615	435.571	87.114	460.077	53.741	187.204
ML-4	KIPS	169.721	13.033	200.212	143.631	218.205	121.237	125.825
ML-5	KIPS	248.118	59.540	519.286	92.131	469.606	26.630	200.194
ML-6	KIPS	180.440	59.649	414.353	29.902	402.335	-41.456	122.953
BT-1	KIPS	21.080	0.923	26.267	15.920	24.512	17.648	-1133.466
BT-2	KIPS	26.114	2.789	34.649	19.084	36.489	15.740	-812.884
EX-1	FEET	-0.205	0.036	-0.107	-0.311	-0.069	-0.340	4.831
EX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-0.638	1.725	2.830	-4.297	5.778	-7.054	13.461
MST Sway	FEET	-0.306	9.061	33.590	-26.498	33.402	-34.014	28.819
MST Heave	FEET	0.789	0.173	1.403	-0.298	1.433	0.144	1.724
Roll	DEG	-0.354	0.352	1.182	-1.675	0.954	-1.661	5.072

Pitch	DEG	1.689	0.114	2.042	1.252	2.112	1.266	0.521
Yaw	DEG	-0.492	0.441	0.890	-1.350	1.149	-2.133	-1.926
Pt Surge	FEET	-6.624	1.903	-3.109	-10.493	0.455	-13.702	12.230
Wsway	FEET	-1.505	10.193	36.267	-31.498	36.411	-39.422	46.781
Heave	FEET	0.885	0.171	1.494	-0.179	1.520	0.250	2.525

ASOP100.HDR, ZERO1.ZER, and 204HEAVE.TST processed 15:16:58 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.016	0.007	-0.042	0.061	-0.058	-0.007
WAVE-2	FEET	-0.617	0.104	-0.400	-0.838	-0.231	-1.002	0.674
AIRGAP	FEET	1.142	4.309	18.011	-11.740	17.172	-14.888	-18.984
ML-1	KIPS	266.837	26.685	320.559	162.417	366.105	167.568	305.495
ML-2	KIPS	281.599	22.295	334.314	189.445	364.537	198.661	273.192
ML-3	KIPS	225.980	21.242	278.766	161.161	304.998	146.961	187.204
ML-4	KIPS	153.611	30.102	239.384	82.696	265.592	41.630	125.825
ML-5	KIPS	238.108	30.956	330.836	159.136	353.266	122.951	200.194
ML-6	KIPS	164.470	23.691	230.671	72.619	252.601	76.339	122.953
BT-1	KIPS	20.118	2.024	21.093	15.920	27.645	12.591	-1133.466
BT-2	KIPS	25.152	6.524	45.025	19.084	49.420	0.885	-812.884
BEX-1	FEET	-0.216	0.055	0.068	-0.603	-0.013	-0.419	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-0.426	4.004	8.457	-12.247	14.470	-15.322	13.461
MST Sway	FEET	0.215	2.020	4.983	-5.437	7.730	-7.300	28.819
MST Heave	FEET	0.119	4.565	13.154	-18.177	17.100	-16.862	1.724
Roll	DEG	-0.595	0.480	0.187	-2.120	1.191	-2.380	5.072
Pitch	DEG	1.766	0.880	4.370	-0.220	5.041	-1.509	0.521
Yaw	DEG	0.048	0.500	0.722	-1.154	1.908	-1.812	-1.926
Pt Surge	FEET	-6.664	2.457	-1.342	-12.200	2.476	-15.804	12.230
Pt Sway	FEET	-1.886	1.956	2.192	-7.682	5.389	-9.162	46.781
Heave	FEET	0.257	4.582	13.285	-17.940	17.301	-16.787	2.525

ASOP100.HDR, ZERO1.ZER, and 206PITCH.TST processed 15:18:42 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.000	0.018	0.007	-0.042	0.066	-0.066	-0.007
WAVE-2	FEET	-0.211	0.128	0.203	-0.619	0.266	-0.688	0.674
AIRGAP	FEET	-3.240	1.097	-1.246	-8.007	0.840	-7.320	-18.984
ML-1	KIPS	324.110	35.782	435.960	226.528	457.218	191.002	305.495
ML-2	KIPS	280.478	14.109	319.456	237.734	332.964	227.991	273.192
ML-3	KIPS	176.871	24.477	239.564	130.671	267.927	85.816	187.204
ML-4	KIPS	119.908	34.049	217.622	52.229	246.570	-6.754	125.825
ML-5	KIPS	195.372	15.589	247.080	159.136	253.364	137.379	200.194
ML-6	KIPS	143.929	23.777	192.226	85.434	232.380	55.478	122.953
BT-1	KIPS	2.741	2.575	5.572	0.398	12.321	-6.839	-1133.466
BT-2	KIPS	-3.529	2.599	3.519	-6.857	6.139	-13.198	-812.884
BEX-1	FEET	-0.021	0.035	0.039	-0.107	0.109	-0.151	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-6.731	6.134	10.555	-27.149	16.087	-29.548	13.461
MST Sway	FEET	3.267	1.188	5.819	0.966	7.685	-1.152	28.819
MST Heave	FEET	0.301	0.339	0.782	-1.700	1.561	-0.959	1.724
Roll	DEG	-2.131	0.268	-1.515	-2.710	-1.132	-3.130	5.072
Pitch	DEG	-1.585	1.057	0.008	-6.766	2.347	-5.517	0.521
Yaw	DEG	-0.110	0.691	1.422	-1.490	2.459	-2.679	-1.926
Pt Surge	FEET	-1.144	5.950	12.642	-12.480	20.990	-23.279	12.230
Pt Sway	FEET	-4.256	1.211	-1.033	-6.679	0.250	-8.761	46.781
Heave	FEET	0.555	0.259	1.309	-0.481	1.520	-0.410	2.525

ASOP100.HDR, ZERO1.ZER, and 207YAW.TST processed 15:20:02 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.000	0.017	0.007	-0.042	0.064	-0.064	-0.007
WAVE-2	FEET	-0.136	0.107	0.093	-0.400	0.263	-0.535	0.674

ASOP100.HDR, ZERO1.ZER, and 205ROLL.TST processed 15:17:36 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.016	0.007	-0.042	0.062	-0.060	-0.007
WAVE-2	FEET	-0.225	0.094	0.038	-0.455	0.124	-0.573	0.674
AIRGAP	FEET	-0.758	1.650	6.219	-2.598	5.378	-6.894	-18.984
ML-1	KIPS	323.996	6.844	346.204	312.011	349.456	298.537	305.495
ML-2	KIPS	285.060	42.240	375.175	182.015	442.191	127.928	273.192
ML-3	KIPS	181.958	46.224	287.477	69.691	353.910	10.005	187.204
ML-4	KIPS	122.656	11.921	156.688	100.106	167.001	78.311	125.825
ML-5	KIPS	196.777	47.338	318.272	121.446	372.875	20.678	200.194
ML-6	KIPS	140.908	45.130	264.844	76.890	308.793	-26.976	122.953
BT-1	KIPS	5.188	1.356	5.572	0.398	10.232	0.144	-1133.466
BT-2	KIPS	-2.939	3.035	3.519	-12.045	8.350	-14.228	-812.884
BEX-1	FEET	-0.026	0.038	0.097	-0.136	0.115	-0.168	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-4.130	0.876	-1.249	-5.641	-0.871	-7.389	13.461
MST Sway	FEET	0.979	9.050	24.375	-23.856	34.646	-32.688	28.819
MST Heave	FEET	0.148	0.713	1.753	-1.958	2.800	-2.505	1.724
Roll	DEG	-0.819	2.008	7.241	-2.936	6.652	-8.289	5.072
Pitch	DEG	-0.048	0.121	0.220	-0.399	0.404	-0.500	0.521
Yaw	DEG	-0.664	0.489	0.274	-1.658	1.154	-2.481	-1.926
Pt Surge	FEET	-4.023	0.752	-1.400	-5.188	-1.226	-6.821	12.230
Pt Sway	FEET	-1.918	8.098	15.848	-17.319	28.205	-32.041	46.781
Pt Heave	FEET	0.293	0.654	2.095	-1.597	2.728	-2.141	2.525

ASOP100.HDR, ZERO1.ZER, and 208.TST processed 15:20:31 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.000	0.018	0.007	-0.042	0.065	-0.066	-0.007
WAVE-2	FEET	-0.150	2.540	5.240	-4.835	9.300	-9.600	0.674
AIRGAP	FEET	-0.185	4.758	8.274	-7.845	17.516	-17.886	-18.984
ML-1	KIPS	352.169	23.097	393.219	307.737	438.088	266.250	305.495
ML-2	KIPS	294.760	13.901	319.456	271.166	346.474	243.047	273.192
ML-3	KIPS	161.664	10.742	182.940	139.383	201.624	121.703	187.204
ML-4	KIPS	88.632	21.679	126.221	43.524	169.276	7.988	125.825
ML-5	KIPS	186.527	13.569	209.390	163.324	237.005	136.050	200.194
ML-6	KIPS	138.019	13.357	166.596	111.064	187.705	88.332	122.953
BT-1	KIPS	-4.015	1.833	0.398	-4.776	2.803	-10.832	-1133.466
BT-2	KIPS	-6.898	2.069	-1.669	-12.045	0.797	-14.594	-812.884
BEX-1	FEET	0.078	0.028	0.155	0.009	0.183	-0.026	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	8.285	6.247	24.918	-0.370	31.525	-14.956	13.461
MST Sway	FEET	-0.001	0.513	0.826	-1.529	1.908	-1.911	28.819
MST Heave	FEET	1.036	0.550	3.037	-0.103	3.081	-1.010	1.724
Roll	DEG	0.004	0.052	0.117	-0.119	0.198	-0.190	5.072
Pitch	DEG	-1.616	0.697	-0.721	-3.540	0.976	-4.208	0.521
Yaw	DEG	-0.598	0.194	-0.034	-0.818	0.123	-1.319	-1.926
Pt Surge	FEET	13.997	8.147	36.672	3.471	44.304	-16.311	12.230
Pt Sway	FEET	-0.043	0.536	0.917	-1.457	1.951	-2.037	46.781
Pt Heave	FEET	1.131	0.594	3.209	-0.070	3.340	-1.078	2.525

ASOP100.HDR, ZERO1.ZER, and 213.TST processed 15:22:07 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.000	0.018	0.007	-0.042	0.066	-0.067	-0.007
WAVE-2	FEET	0.003	6.541	9.237	-10.311	24.334	-24.329	0.674
AIRGAP	FEET	-0.310	2.204	2.595	-4.492	7.887	-8.508	-18.984
ML-1	KIPS	359.456	26.796	406.042	312.011	459.136	259.775	305.495
ML-2	KIPS	288.652	21.213	323.170	256.307	367.565	209.738	273.192
ML-3	KIPS	176.430	22.076	217.786	135.027	258.553	94.306	187.204
ML-4	KIPS	109.699	29.629	165.393	39.172	219.919	-0.522	125.825



AIRGAP	FEET	-3.324	0.080	-3.193	-3.734	-3.026	-3.622	-18.984
ML-1	KIPS	339.780	15.568	376.123	307.737	397.692	281.867	305.495
ML-2	KIPS	283.183	5.880	304.597	274.880	305.055	261.311	273.192
ML-3	KIPS	169.426	10.181	196.007	152.450	207.301	131.552	187.204
ML-4	KIPS	117.484	14.360	152.335	87.049	170.902	64.066	125.825
ML-5	KIPS	196.579	7.109	226.141	184.263	223.026	170.133	200.194
ML-6	KIPS	153.200	10.390	175.139	128.150	191.852	114.547	122.953
BT-1	KIPS	0.547	0.886	5.572	-4.776	3.842	-2.748	-1133.466
BT-2	KIPS	6.821	2.717	13.896	-1.669	16.929	-3.287	-812.884
BEX-1	FEET	-0.051	0.038	0.039	-0.136	0.091	-0.193	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-6.717	1.524	-3.137	-10.122	-1.048	-12.385	13.461
MST Sway	FEET	3.490	0.781	5.267	1.382	6.394	0.587	28.819
MST Heave	FEET	0.411	0.060	0.603	0.217	0.636	0.187	1.724
Roll	DEG	-2.214	0.069	-2.073	-2.436	-1.958	-2.470	5.072
Pitch	DEG	-1.690	0.074	-1.505	-1.836	-1.416	-1.965	0.521
Yaw	DEG	-0.861	5.645	12.763	-15.407	20.139	-21.860	-1.926
Pt Surge	FEET	-0.904	1.474	1.995	-4.214	4.580	-6.387	12.230
Pt Sway	FEET	-4.396	0.955	-2.235	-6.455	-0.843	-7.948	46.781
Pt Heave	FEET	0.651	0.057	0.827	0.445	0.861	0.441	2.525

ASOP100.HDR, ZERO1.ZER, and 212.TST processed 15:21:11 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.017	0.007	-0.042	0.063	-0.061	-0.007
WAVE-2	FEET	0.082	7.473	11.920	-13.651	27.880	-27.717	0.674
AIRGAP	FEET	-1.649	4.915	6.597	-10.820	16.634	-19.932	-18.984
ML-1	KIPS	412.050	14.520	453.057	359.026	466.064	358.035	305.495
ML-2	KIPS	321.426	10.574	352.887	293.453	360.760	282.093	273.192
ML-3	KIPS	140.902	13.236	174.229	108.893	190.139	91.664	187.204
ML-4	KIPS	48.414	18.106	100.106	8.705	115.769	-18.941	125.825
ML-5	KIPS	167.926	11.642	192.638	138.197	211.234	124.619	200.194
ML-6	KIPS	168.247	10.696	192.226	132.422	208.037	128.458	122.953
BT-1	KIPS	-4.902	0.925	0.398	-9.950	-1.461	-8.343	-1133.466
BT-2	KIPS	-18.888	2.690	-12.045	-22.422	-8.882	-28.893	-812.884
BEX-1	FEET	0.158	0.031	0.243	0.097	0.273	0.044	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	31.590	9.977	61.754	3.834	68.703	-5.523	13.461
MST Sway	FEET	-0.741	0.536	0.548	-2.481	1.254	-2.736	28.819
MST Heave	FEET	3.158	2.162	7.984	-1.116	11.200	-4.884	1.724
Roll	DEG	0.270	0.078	0.452	0.027	0.558	-0.018	5.072
Pitch	DEG	-5.798	1.545	-1.718	-9.943	-0.050	-11.547	0.521
Yaw	DEG	-1.096	0.120	-0.622	-1.238	-0.650	-1.541	-1.926
Pt Surge	FEET	52.064	14.139	93.747	16.405	104.660	-0.533	12.230
Pt Sway	FEET	-0.178	0.578	0.891	-2.018	1.971	-2.327	46.781
Pt Heave	FEET	4.270	2.254	10.017	-0.560	12.655	-4.115	2.525

ASOP100.HDR, ZERO1.ZER, and 221.TST processed 15:25:40 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.017	0.007	-0.042	0.063	-0.062	-0.007
WAVE-2	FEET	0.154	2.373	8.416	-9.051	8.979	-8.672	0.674
AIRGAP	FEET	-0.313	2.960	9.843	-9.089	10.697	-11.323	-18.984
ML-1	KIPS	367.630	10.622	397.493	341.930	407.142	328.117	305.495
ML-2	KIPS	289.942	5.539	304.597	274.880	310.549	269.335	273.192
ML-3	KIPS	178.372	9.045	209.074	156.806	212.020	144.725	187.204
ML-4	KIPS	138.598	10.929	169.745	108.811	179.254	97.941	125.825
ML-5	KIPS	189.138	7.041	209.390	167.512	215.331	162.945	200.194
ML-6	KIPS	147.893	7.134	166.596	128.150	174.432	121.355	122.953
BT-1	KIPS	-4.313	1.490	0.398	-9.950	1.230	-9.856	-1133.466
BT-2	KIPS	9.361	3.299	19.084	3.519	21.634	-2.912	-812.884
BEX-1	FEET	0.340	0.124	0.651	0.155	0.802	-0.122	4.831

BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	45.611	13.084	72.424	8.965	94.284	-3.062	13.461
MST Sway	FEET	0.199	0.548	1.510	-1.807	2.237	-1.840	28.819
MST Heave	FEET	2.725	1.364	6.635	-1.222	7.800	-2.350	1.724
Roll	DEG	0.133	0.122	0.399	-0.181	0.586	-0.320	5.072
Pitch	DEG	-6.269	1.499	-1.576	-9.357	-0.692	-11.845	0.521
Yaw	DEG	-0.907	0.266	-0.202	-1.462	0.083	-1.898	-1.926
Pt Surge	FEET	67.730	18.087	105.136	20.345	135.012	0.447	12.230
Pt Sway	FEET	0.320	0.392	1.357	-1.062	1.779	-1.138	46.781
Pt Heave	FEET	4.006	1.780	8.587	-0.897	10.626	-2.614	2.525

ASOP100.HDR, ZERO1.ZER, and 222.TST processed 15:29:13 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.002	0.019	0.007	-0.042	0.070	-0.075	-0.007
WAVE-2	FEET	0.403	5.748	28.895	-16.498	21.785	-20.978	0.674
AIRGAP	FEET	-1.013	6.185	21.148	-22.612	21.994	-24.020	-18.984
ML-1	KIPS	415.123	43.702	564.184	324.833	577.694	252.553	305.495
ML-2	KIPS	311.609	25.925	401.177	260.022	408.049	215.169	273.192
ML-3	KIPS	187.375	19.205	252.631	135.027	258.819	115.932	187.204
ML-4	KIPS	113.952	31.535	195.860	21.762	231.262	-3.357	125.825
ML-5	KIPS	192.897	20.430	247.080	134.009	268.897	116.897	200.194
ML-6	KIPS	150.583	28.295	260.572	89.705	255.839	45.328	122.953
BT-1	KIPS	-0.828	2.200	0.398	-4.776	7.356	-9.011	-1133.466
BT-2	KIPS	5.053	3.462	19.084	-1.669	17.930	-7.824	-812.884
BEX-1	FEET	0.005	0.050	0.155	-0.136	0.190	-0.179	4.831
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	37.685	9.494	60.538	7.365	73.002	2.368	13.461
MST Sway	FEET	-0.267	1.316	3.569	-4.943	4.628	-5.162	28.819
MST Heave	FEET	2.948	2.725	11.753	-4.810	13.085	-7.188	1.724
Roll	DEG	0.203	0.262	1.028	-0.658	1.180	-0.773	5.072
Pitch	DEG	-5.883	1.550	-1.245	-11.970	-0.116	-11.649	0.521
Yaw	DEG	-0.906	0.597	1.310	-2.750	1.313	-3.125	-1.926
Pt Surge	FEET	58.450	10.845	89.479	22.574	98.794	18.107	12.230
Pt Sway	FEET	0.146	1.143	3.496	-4.404	4.398	-4.106	46.781
Pt Heave	FEET	4.092	2.991	13.665	-4.564	15.221	-7.036	2.525

ASOP100.HDR, ZERO1.ZER, and 223.TST processed 15:32:43 02-21-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.002	0.019	0.007	-0.042	0.069	-0.072	-0.007
WAVE-2	FEET	0.318	12.002	51.783	-44.040	44.966	-44.330	0.674
AIRGAP	FEET	-2.375	9.406	32.832	-34.729	32.614	-37.364	-18.984
ML-1	KIPS	491.202	174.279	2838.017	226.528	1139.520	-157.116	305.495
ML-2	KIPS	363.773	84.994	1757.006	219.161	679.951	47.596	273.192
ML-3	KIPS	83.730	42.879	265.698	-39.201	243.241	-75.781	187.204
ML-4	KIPS	51.539	63.504	339.490	-104.459	287.772	-184.695	125.825
ML-5	KIPS	137.216	38.872	309.897	29.315	281.820	-7.388	200.194
ML-6	KIPS	154.095	76.313	1080.735	8.543	437.979	-129.789	122.953
BT-1	KIPS	-0.746	2.147	0.398	-4.776	7.241	-8.732	-1133.466
BT-2	KIPS	4.021	2.140	8.708	-1.669	11.981	-3.939	-812.884
BEX-1	FEET	-0.062	0.039	0.097	-0.195	0.082	-0.206	4.831
BEX-2	FEET	-0.002	0.061	0.000	-2.410	0.224	-0.227	60.180
MST Surge	FEET	19.957	17.051	66.561	-44.366	83.386	-43.473	13.461
MST Sway	FEET	-1.151	2.307	3.416	-9.754	7.433	-9.735	28.819
MST Heave	FEET	3.050	5.007	29.907	-12.072	21.675	-15.576	1.724
Roll	DEG	-0.087	0.768	1.983	-2.591	2.768	-2.942	5.072
Pitch	DEG	-5.724	2.940	1.072	-17.051	5.213	-16.661	0.521
Yaw	DEG	-1.483	1.341	4.923	-5.298	3.505	-6.472	-1.926
Pt Surge	FEET	40.123	16.692	99.593	-14.439	102.219	-21.972	12.230
Pt Sway	FEET	-1.904	2.852	4.960	-9.981	8.707	-12.515	46.781
Pt Heave	FEET	4.343	5.175	33.637	-11.445	23.595	-14.909	2.525

ASOP300.HDR, 311.ZER, and 311.TST processed 19:20:23 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.000	0.021	0.012	-0.037	0.079	-0.079	-0.012
WAVE-2	FEET	0.406	3.309	8.436	-7.060	12.717	-11.904	-0.113
AIRGAP	FEET	-0.096	5.962	10.252	-11.277	22.084	-22.276	90.148
ML-1	KIPS	293.450	12.776	324.046	272.757	340.977	245.923	270.096
ML-2	KIPS	280.970	6.350	296.159	270.157	304.593	257.346	270.157
ML-3	KIPS	268.684	8.005	282.517	243.316	298.463	238.906	270.748
ML-4	KIPS	258.063	13.385	281.032	224.450	307.856	208.270	270.511
ML-5	KIPS	264.382	8.313	283.455	241.577	295.305	233.459	270.143
ML-6	KIPS	284.244	6.092	298.127	272.497	306.908	261.581	270.319
BT-1	KIPS	-9.704	76.254	174.197	-229.362	273.959	-293.368	974.393
BT-2	KIPS	-3.369	44.619	97.339	-110.190	162.613	-169.351	561.566
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-3.423	2.284	1.006	-7.730	5.075	-11.920	1.029
MST Sway	FEET	0.007	0.293	0.640	-0.610	1.097	-1.084	16.825
MST Heave	FEET	0.592	0.752	2.277	-0.863	3.388	-2.204	1.111
Roll	DEG	0.010	0.036	0.114	-0.083	0.146	-0.125	3.280
Pitch	DEG	0.110	0.335	0.724	-0.686	1.357	-1.137	2.072
Yaw	DEG	0.085	0.037	0.181	0.013	0.224	-0.054	7.156
Pt Surge	FEET	-3.811	2.041	-0.229	-8.534	3.780	-11.403	-7.670
Pt Sway	FEET	0.043	0.356	0.899	-0.800	1.367	-1.281	27.415
Pt Heave	FEET	0.596	0.752	2.278	-0.858	3.392	-2.200	1.575

ASOP300.HDR, 312.ZER, and 312.TST processed 19:20:55 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
VE-1	FEET	0.002	0.020	0.012	-0.037	0.076	-0.073	-0.012
VE-2	FEET	0.258	7.518	12.555	-11.867	28.224	-27.707	0.039
IRGAP	FEET	-0.291	6.083	11.446	-11.705	22.339	-22.921	90.252
ML-1	KIPS	328.796	22.778	375.335	247.112	413.530	244.061	268.356
ML-2	KIPS	297.656	11.038	322.161	262.728	338.719	256.593	275.000
ML-3	KIPS	250.918	12.465	282.517	221.537	297.288	204.548	260.609
ML-4	KIPS	220.971	22.196	285.384	163.516	303.539	138.403	253.692
ML-5	KIPS	248.943	12.764	279.268	216.451	296.424	201.463	266.363
ML-6	KIPS	305.144	12.934	336.572	263.954	353.256	257.031	270.915
T-1	KIPS	-7.886	96.921	185.491	-223.241	352.658	-368.430	983.794
T-2	KIPS	-11.485	65.832	127.285	-163.256	233.411	-256.382	573.127
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-7.153	3.225	3.688	-14.825	4.845	-19.151	-0.919
MST Sway	FEET	0.206	0.386	1.113	-1.114	1.641	-1.228	16.629
MST Heave	FEET	0.664	1.875	4.267	-2.970	7.640	-6.312	1.109
Roll	DEG	-0.046	0.037	0.102	-0.145	0.091	-0.182	3.262
Pitch	DEG	-0.050	0.842	1.449	-1.628	3.083	-3.183	2.187
Yaw	DEG	0.175	0.141	0.356	-0.204	0.698	-0.349	7.204
Pt Surge	FEET	-6.976	3.762	3.964	-15.762	7.018	-20.969	-10.022
Pt Sway	FEET	0.045	0.437	1.474	-1.222	1.672	-1.581	27.098
Pt Heave	FEET	0.686	1.875	4.270	-2.963	7.662	-6.291	1.585

SOP300.HDR, 313.ZER, and 313.TST processed 19:21:54 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.002	0.021	0.014	-0.036	0.080	-0.076	-0.014
E-2	FEET	0.199	6.585	9.999	-10.589	24.697	-24.298	0.021
AIRGAP	FEET	0.140	2.985	3.706	-5.111	11.244	-10.965	90.257
L-1	KIPS	260.489	28.278	315.498	204.371	365.684	155.293	259.396
L-2	KIPS	273.150	17.018	303.588	244.155	336.456	209.845	266.855
ML-3	KIPS	268.166	17.906	299.940	230.249	334.777	201.555	260.093
L-4	KIPS	262.351	26.754	311.499	211.393	361.874	162.827	269.554
L-5	KIPS	270.489	19.376	304.394	237.390	342.568	198.410	279.174
ML-6	KIPS	269.530	19.665	302.399	238.324	342.682	196.378	274.174
BT-1	KIPS	2.086	37.400	61.588	-57.410	141.216	-137.043	973.178
T-2	KIPS	-4.680	49.416	76.747	-89.276	179.148	-188.508	561.405
LEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-1.457	2.519	3.353	-6.405	7.913	-10.826	1.461
ST Sway	FEET	-0.323	0.326	0.464	-0.931	0.888	-1.534	17.135
MST Heave	FEET	0.078	4.259	6.326	-6.250	15.923	-15.767	1.125
Roll	DEG	-0.011	0.037	0.073	-0.097	0.125	-0.148	3.282
Pitch	DEG	-0.005	0.683	1.028	-1.095	2.536	-2.546	2.133
Yaw	DEG	0.013	0.023	0.069	-0.043	0.097	-0.070	7.155
Pt Surge	FEET	-1.438	4.860	7.226	-9.746	16.640	-19.516	-7.455
t Sway	FEET	-0.363	0.438	0.559	-1.190	1.265	-1.991	27.706
tt Heave	FEET	0.092	4.260	6.326	-6.249	15.938	-15.753	1.597

ASOP300.HDR, 321.ZER, and 321.TST processed 19:25:52 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
VE-1	FEET	0.003	0.021	0.015	-0.034	0.082	-0.075	-0.015
VE-2	FEET	0.314	2.524	9.602	-9.453	9.702	-9.074	-0.019
IRGAP	FEET	0.079	3.510	12.294	-11.074	13.135	-12.978	90.377
ML-1	KIPS	271.975	22.652	332.594	221.467	356.241	187.708	249.423
ML-2	KIPS	277.265	10.511	303.588	251.584	316.366	238.165	270.185
ML-3	KIPS	260.958	13.335	291.229	177.980	310.563	211.354	255.350
ML-4	KIPS	259.220	21.899	307.146	198.335	340.684	177.757	257.367
ML-5	KIPS	248.320	13.996	283.455	203.887	300.384	196.255	276.259
ML-6	KIPS	251.844	12.433	281.041	208.422	298.094	205.594	268.036
ST-1	KIPS	3.981	70.574	196.950	-206.608	266.516	-258.554	977.509
ST-2	KIPS	0.133	49.499	155.724	-124.441	184.269	-184.004	565.440
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-1.839	3.454	6.493	-9.962	11.010	-14.688	0.496
ST Sway	FEET	-0.021	0.376	0.825	-1.264	1.379	-1.422	16.919
ST Heave	FEET	0.219	1.015	3.347	-2.477	3.995	-3.557	1.126
Roll	DEG	-0.009	0.044	0.132	-0.150	0.153	-0.171	3.263
Pitch	DEG	0.005	0.342	1.210	-1.288	1.279	-1.269	2.097
Yaw	DEG	0.075	0.069	0.293	-0.071	0.334	-0.183	7.128
Pt Surge	FEET	-1.856	3.601	5.951	-9.404	11.541	-15.254	-8.278
Pt Sway	FEET	-0.055	0.428	0.972	-1.410	1.539	-1.648	27.442
Pt Heave	FEET	0.223	1.015	3.349	-2.477	3.999	-3.553	1.590

MSOP300.HDR, 322.ZER, and 322.TST processed 19:32:03 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	-0.000	0.021	0.012	-0.037	0.079	-0.080	-0.012
VE-2	FEET	0.422	5.716	23.964	-16.939	21.686	-20.843	0.019
AIRGAP	FEET	-0.212	7.110	21.744	-26.722	26.237	-26.661	90.339
ML-1	KIPS	333.037	60.606	524.930	183.000	558.492	107.582	253.665
ML-2	KIPS	302.214	27.976	385.310	233.011	406.286	198.142	269.992
ML-3	KIPS	231.803	27.405	308.651	160.557	333.751	129.855	253.802
ML-4	KIPS	211.753	51.666	355.023	80.820	403.950	19.557	259.495
ML-5	KIPS	232.965	28.970	304.394	162.009	340.733	125.197	257.832
ML-6	KIPS	285.713	32.249	383.561	187.064	405.680	165.747	247.532
PT-1	KIPS	13.187	165.491	484.922	-627.451	628.812	-602.439	979.271
PT-2	KIPS	-3.826	118.481	331.355	-415.750	436.924	-444.577	555.833
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	-9.814	8.777	14.204	-37.476	22.837	-42.465	0.736
MST Sway	FEET	-0.177	0.903	1.753	-3.114	3.182	-3.536	16.830
MST Heave	FEET	0.645	2.553	9.689	-6.366	10.143	-8.853	1.105
Roll	DEG	-0.062	0.095	0.279	-0.383	0.292	-0.415	3.247
Pitch	DEG	0.059	0.888	2.870	-2.961	3.363	-3.245	2.070
Yaw	DEG	0.037	0.218	0.765	-0.635	0.848	-0.774	7.188
Pt Surge	FEET	-10.024	9.282	14.501	-37.686	24.507	-44.554	-7.948
Pt Sway	FEET	-0.396	0.994	1.896	-3.299	3.304	-4.095	27.301
Pt Heave	FEET	0.670	2.556	9.690	-6.250	10.180	-8.840	1.562

SOP300.HDR, 323.ZER, and 323.TST processed 19:35:30 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.001	0.021	0.013	-0.036	0.080	-0.077	-0.013
VE-2	FEET	0.345	12.139	49.306	-45.531	45.504	-44.814	0.138
AIRGAP	FEET	-0.590	10.673	36.699	-34.486	39.114	-40.295	90.476
ML-1	KIPS	406.641	107.613	1798.618	144.533	806.960	6.321	285.494
ML-2	KIPS	332.705	38.927	593.327	210.723	477.512	187.897	274.954
ML-3	KIPS	201.036	33.868	330.430	117.000	327.025	75.048	252.229
ML-4	KIPS	165.692	59.243	381.138	24.238	386.077	-54.693	247.308
ML-5	KIPS	196.424	34.707	321.146	107.568	325.535	67.313	242.271
ML-6	KIPS	293.357	45.031	520.255	140.075	460.871	125.843	234.703
BT-1	KIPS	-20.234	243.645	799.476	%-1285.576	886.124	-926.592	985.49
BT-2	KIPS	-31.554	171.539	500.475	-864.030	606.571	-669.679	552.736
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-17.823	11.299	18.093	-59.250	24.209	-59.855	-0.589
ST Sway	FEET	-0.572	1.449	3.162	-4.162	4.819	-5.964	16.760
MST Heave	FEET	0.945	4.669	21.184	-18.374	18.316	-16.425	1.051
Roll	DEG	-0.147	0.156	0.377	-0.743	0.433	-0.726	3.226
Pitch	DEG	-0.038	1.575	5.355	-7.939	5.820	-5.897	2.103
Yaw	DEG	-0.127	0.422	1.190	-1.890	1.444	-1.697	6.987
Pt Surge	FEET	-17.689	12.160	24.284	-58.577	27.547	-62.926	-9.344
Pt Sway	FEET	-1.088	1.557	2.957	-5.729	4.702	-6.878	27.173
Pt Heave	FEET	1.023	4.666	21.683	-18.358	18.379	-16.333	1.509



ASOP300.HDR, 330.ZER, and 330.TST processed 19:36:24 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
VE-1	FEET	0.003	0.021	0.015	-0.035	0.082	-0.075	-0.015
VE-2	FEET	-0.009	0.151	0.425	-0.451	0.551	-0.570	0.341
AIRGAP	FEET	18.678	7.156	32.056	-0.237	45.298	-7.943	70.940
ML-1	KIPS	177.062	39.449	306.950	88.969	323.811	30.313	208.573
ML-2	KIPS	276.568	26.875	363.022	203.294	376.543	176.592	272.717
ML-3	KIPS	271.579	21.978	334.786	208.470	353.337	189.821	273.842
ML-4	KIPS	214.136	47.103	381.138	80.820	389.358	38.914	200.713
ML-5	KIPS	287.034	25.510	358.836	208.075	381.933	192.136	298.130
ML-6	KIPS	209.439	26.527	289.584	131.532	308.120	110.758	214.345
BT-1	KIPS	0.077	0.457	5.261	-5.087	1.777	-1.623	-1236.632
BT-2	KIPS	818.143	311.237	1311.315	-1.308	1975.944	-339.657	-185.468
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
MST Surge	FEET	10.934	9.714	43.844	-18.876	47.069	-25.201	-24.406
MST Sway	FEET	-0.935	0.942	0.833	-4.651	2.569	-4.438	18.278
MST Heave	FEET	-6.627	2.745	0.100	-12.575	3.584	-16.837	16.600
Roll	DEG	0.049	0.074	0.264	-0.187	0.325	-0.228	3.381
Pitch	DEG	7.886	3.069	13.080	-0.065	19.304	-3.533	2.063
Yaw	DEG	-1.368	0.591	0.118	-2.151	0.829	-3.564	8.619
Pt Surge	FEET	-16.815	9.709	1.577	-39.466	19.304	-52.934	-33.394
Pt Sway	FEET	-0.007	0.889	1.937	-3.589	3.299	-3.314	29.000
Pt Heave	FEET	-4.422	1.901	0.100	-8.015	2.651	-11.495	17.083

SOP300.HDR, 340.ZER, and 340.TST processed 19:37:18 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.000	0.021	0.012	-0.038	0.078	-0.078	-0.012
VE-2	FEET	0.519	0.141	0.851	-0.135	1.045	-0.007	1.011
AIRGAP	FEET	-0.000	0.153	0.533	-0.549	0.568	-0.569	73.253
ML-1	KIPS	215.291	5.253	230.015	204.371	234.834	195.749	208.678
ML-2	KIPS	285.348	3.403	292.445	277.586	298.008	272.688	282.558
ML-3	KIPS	233.498	3.929	243.316	225.893	248.113	218.884	233.438
ML-4	KIPS	155.055	5.712	167.868	141.754	176.303	133.808	155.496
ML-5	KIPS	280.780	4.410	291.831	270.892	297.184	264.377	281.510
ML-6	KIPS	178.642	4.735	199.879	169.977	196.255	161.029	179.698
PT-1	KIPS	4.186	6.333	29.495	-11.896	27.743	-19.372	410.280
PT-2	KIPS	-2.538	3.889	13.114	-12.828	11.927	-17.003	-1045.572
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-0.355	1.258	1.937	-2.868	4.325	-5.035	-27.328
MST Sway	FEET	-0.256	0.300	0.377	-1.011	0.859	-1.371	17.398
MST Heave	FEET	0.211	0.097	0.398	-0.082	0.573	-0.152	15.532
Roll	DEG	-0.033	0.027	0.041	-0.124	0.066	-0.133	3.343
Pitch	DEG	0.018	0.070	0.196	-0.145	0.278	-0.241	2.506
Yaw	DEG	-0.029	0.125	0.276	-0.368	0.435	-0.494	7.649
Pt Surge	FEET	-0.420	1.470	2.450	-3.289	5.049	-5.890	-37.665
Pt Sway	FEET	-0.373	0.371	0.475	-1.411	1.006	-1.753	27.929
Pt Heave	FEET	0.211	0.097	0.399	-0.082	0.573	-0.151	16.070

SOP300.HDR, 341.ZER, and 341.TST processed 19:37:57 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	-0.002	0.021	0.008	-0.041	0.074	-0.079	-0.008
VE-2	FEET	0.036	0.140	0.260	-0.232	0.555	-0.483	1.601
AIRGAP	FEET	-0.103	0.164	0.156	-0.763	0.506	-0.713	73.305
ML-1	KIPS	213.048	6.039	225.741	200.096	235.513	190.583	217.886
ML-2	KIPS	285.837	5.885	299.874	270.157	307.730	263.944	284.580
ML-3	KIPS	233.168	3.328	243.316	225.893	245.547	220.790	232.564
ML-4	KIPS	153.137	7.297	172.221	137.401	180.282	125.992	151.753
ML-5	KIPS	282.535	6.241	300.207	266.704	305.751	259.319	282.248
ML-6	KIPS	175.481	3.416	182.792	165.705	188.187	162.775	176.019
PT-1	KIPS	-14.133	26.860	31.323	-103.197	85.785	-114.051	413.627
PT-2	KIPS	22.459	58.789	284.885	-135.361	241.153	-196.234	-1047.556
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-0.437	1.358	2.967	-3.441	4.614	-5.487	-27.187
MST Sway	FEET	-0.338	0.952	1.284	-3.433	3.204	-3.880	17.320
MST Heave	FEET	0.120	0.152	0.634	-0.086	0.686	-0.445	15.705
Roll	DEG	0.088	0.193	0.658	-0.321	0.805	-0.630	3.329
Pitch	DEG	-0.023	0.137	0.299	-0.382	0.487	-0.532	2.529
Yaw	DEG	-0.168	0.661	0.936	-1.388	2.289	-2.626	7.661
Pt Surge	FEET	-0.355	1.518	3.123	-3.502	5.293	-6.002	-37.600
Pt Sway	FEET	-0.030	0.582	1.200	-1.476	2.135	-2.195	27.788
Pt Heave	FEET	0.122	0.154	0.649	-0.086	0.696	-0.451	16.244

ASOP300.HDR, 351.ZER, and 351.TST processed 19:38:21 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.000	0.021	0.011	-0.039	0.076	-0.077	-0.011
WAVE-2	FEET	-0.423	3.178	5.140	-5.756	11.399	-12.246	1.704
IRGAP	FEET	-0.543	6.510	10.943	-12.100	23.673	-24.758	73.337
ML-1	KIPS	242.411	18.493	285.579	191.548	311.206	173.617	243.987
ML-2	KIPS	331.297	12.071	355.593	296.159	376.200	286.394	334.523
ML-3	KIPS	216.514	10.244	243.316	199.759	254.622	178.407	204.151
ML-4	KIPS	125.303	15.875	172.221	93.877	184.360	66.247	110.116
ML-5	KIPS	298.875	10.741	329.521	275.080	338.833	258.918	288.488
ML-6	KIPS	197.143	12.151	221.237	157.162	242.344	151.943	197.653
LT-1	KIPS	-41.662	87.062	192.649	-262.648	282.209	-365.533	438.558
LT-2	KIPS	-1.187	44.381	145.227	-88.244	163.911	-166.285	-1022.038
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	2.123	3.374	11.766	-4.825	14.673	-10.427	1.198
MST Sway	FEET	0.001	1.059	1.679	-2.341	3.942	-3.939	17.032
MST Heave	FEET	0.855	0.723	2.519	-0.771	3.543	-1.833	1.191
Roll	DEG	0.097	0.226	0.533	-0.339	0.937	-0.743	3.234
Pitch	DEG	-0.102	0.320	0.826	-0.841	1.088	-1.291	2.323
Yaw	DEG	-0.053	0.052	0.028	-0.252	0.140	-0.247	7.281
Pt Surge	FEET	2.484	3.281	12.355	-2.712	14.690	-9.723	-8.381
Pt Sway	FEET	0.343	0.472	1.156	-0.744	2.100	-1.415	27.328
Pt Heave	FEET	0.860	0.724	2.523	-0.761	3.552	-1.832	1.680

ASOP300.HDR, 352.ZER, and 352.TST processed 19:38:48 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.001	0.021	0.012	-0.037	0.079	-0.078	-0.012
WAVE-2	FEET	0.245	7.571	12.676	-13.498	28.409	-27.920	1.013
WIRGAP	FEET	-1.040	6.487	11.314	-12.378	23.091	-25.171	73.236
ML-1	KIPS	281.755	28.973	349.691	217.193	389.535	173.974	207.208
ML-2	KIPS	355.803	16.639	396.453	314.732	417.702	293.905	314.233
ML-3	KIPS	196.267	15.813	230.249	160.557	255.090	137.444	226.259
ML-4	KIPS	93.701	26.007	141.754	28.590	190.446	-3.044	144.716
ML-5	KIPS	279.344	15.632	308.582	241.577	337.493	221.194	309.286
ML-6	KIPS	221.860	19.997	272.497	178.520	296.247	147.472	178.484
T-1	KIPS	43.334	97.652	229.822	-153.041	406.600	-319.932	411.732
T-2	KIPS	-9.154	86.289	144.224	-177.446	311.842	-330.151	-1031.412
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-11.343	4.599	-1.381	-22.190	5.764	-28.450	7.922
MST Sway	FEET	-0.666	0.475	0.515	-1.432	1.101	-2.434	17.498
MST Heave	FEET	1.630	2.165	5.938	-2.349	9.684	-6.424	1.225
Roll	DEG	-0.176	0.058	-0.045	-0.308	0.041	-0.394	3.315
Pitch	DEG	0.353	0.976	2.181	-1.290	3.983	-3.277	2.130
Yaw	DEG	-0.553	0.153	-0.011	-0.991	0.016	-1.122	7.124
Pt Surge	FEET	-12.596	5.163	-1.299	-24.051	6.612	-31.805	-0.990
Pt Sway	FEET	-1.275	0.614	0.296	-2.307	1.007	-3.558	28.191
Pt Heave	FEET	1.664	2.169	5.974	-2.347	9.732	-6.403	1.704

ASOP300.HDR, 353.ZER, and 353.TST processed 19:39:30 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	0.002	0.020	0.013	-0.037	0.078	-0.073	-0.013
WAVE-2	FEET	0.027	6.525	9.490	-10.168	24.300	-24.245	1.188
IRGAP	FEET	0.104	3.129	4.048	-6.230	11.743	-11.534	73.363
ML-1	KIPS	236.902	21.310	277.031	200.096	316.176	157.628	235.683
ML-2	KIPS	324.764	19.668	359.307	288.730	397.931	251.598	323.124
ML-3	KIPS	216.201	19.550	252.027	177.980	288.929	143.473	204.598
ML-4	KIPS	129.053	26.802	176.573	76.467	228.755	29.350	118.541
ML-5	KIPS	308.764	21.538	346.272	266.704	388.885	228.643	303.588
ML-6	KIPS	194.875	22.092	234.052	157.162	277.055	112.695	187.000
PT-1	KIPS	-4.594	35.723	60.860	-73.660	128.295	-137.483	425.480
PT-2	KIPS	0.793	58.176	91.813	-100.152	217.209	-215.623	-1020.506
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-0.100	2.622	4.803	-5.699	9.652	-9.852	4.956
MST Sway	FEET	0.254	0.372	0.939	-0.452	1.637	-1.129	17.075
MST Heave	FEET	0.167	4.480	6.860	-6.612	16.832	-16.497	1.212
Roll	DEG	0.026	0.048	0.119	-0.073	0.205	-0.153	3.245
Pitch	DEG	0.057	0.723	1.240	-1.039	2.746	-2.632	2.204
Yaw	DEG	0.047	0.057	0.165	-0.059	0.259	-0.164	6.696
Pt Surge	FEET	-0.302	4.970	8.441	-10.060	18.185	-18.788	-4.108
Pt Sway	FEET	0.348	0.526	1.276	-0.617	2.304	-1.607	27.556
Pt Heave	FEET	0.184	4.480	6.861	-6.611	16.849	-16.481	1.686

ASOP300.HDR, 361.ZER, and 361.TST processed 19:43:04 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
W-E-1	FEET	0.002	0.021	0.013	-0.036	0.080	-0.076	-0.013
W-E-2	FEET	0.106	2.335	8.536	-8.876	8.791	-8.578	1.210
IRGAP	FEET	-0.114	3.832	13.891	-12.019	14.139	-14.368	73.364
ML-1	KIPS	240.810	11.829	277.031	208.645	284.813	196.807	233.712
ML-2	KIPS	327.271	7.774	348.164	307.303	356.191	298.351	323.533
ML-3	KIPS	203.747	9.216	234.604	177.980	238.030	169.464	209.804
ML-4	KIPS	122.074	11.641	154.811	85.172	165.377	78.771	119.874
ML-5	KIPS	302.270	8.431	329.521	275.080	333.632	270.908	307.148
ML-6	KIPS	192.963	8.245	212.694	169.977	223.635	162.291	190.142
BT-1	KIPS	-3.125	78.242	235.199	-235.619	287.934	-294.184	427.051
BT-2	KIPS	15.192	50.670	184.393	-142.466	203.685	-173.300	-1019.698
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-0.927	2.311	5.132	-7.972	7.669	-9.523	5.055
MST Sway	FEET	-0.012	0.908	2.128	-2.727	3.366	-3.391	17.139
MST Heave	FEET	0.343	1.001	3.088	-2.392	4.067	-3.380	1.231
Roll	DEG	0.036	0.187	0.556	-0.531	0.732	-0.659	3.252
Pitch	DEG	-0.017	0.394	1.146	-1.050	1.449	-1.484	2.228
Yaw	DEG	0.014	0.130	0.501	-0.199	0.499	-0.471	6.723
Pt Surge	FEET	-0.866	1.866	4.031	-6.526	6.076	-7.808	-4.098
Pt Sway	FEET	0.117	0.494	1.555	-1.421	1.955	-1.722	27.632
Pt Heave	FEET	0.349	1.001	3.090	-2.392	4.074	-3.376	1.710

ASOP300.HDR, 362.ZER, and 362.TST processed 19:46:37 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.002	0.021	0.009	-0.040	0.076	-0.080	-0.009
WAVE-2	FEET	0.295	5.804	26.885	-18.288	21.886	-21.297	1.150
IRGAP	FEET	-1.210	8.199	26.529	-32.269	29.291	-31.710	73.384
ML-1	KIPS	284.628	43.646	435.173	183.000	446.990	122.266	247.497
ML-2	KIPS	353.672	28.562	437.314	285.015	459.921	247.423	322.563
ML-3	KIPS	194.153	28.517	282.517	112.644	300.238	88.067	207.018
ML-4	KIPS	109.104	37.373	237.507	2.476	248.132	-29.924	132.735
ML-5	KIPS	295.210	27.940	392.338	212.263	399.147	191.272	308.808
ML-6	KIPS	218.946	29.318	310.942	152.890	328.009	109.883	186.794
T-1	KIPS	-5.045	207.409	695.204	-794.858	766.515	-776.606	427.517
T-2	KIPS	44.592	161.790	606.649	-633.338	646.451	-557.268	-1006.143
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-7.303	7.602	13.537	-34.744	20.978	-35.584	5.061
MST Sway	FEET	-1.261	2.160	4.433	-9.488	6.773	-9.296	17.493
MST Heave	FEET	1.566	3.684	14.769	-8.887	15.272	-12.140	1.242
Roll	DEG	0.110	0.467	1.775	-1.247	1.847	-1.627	3.278
Pitch	DEG	0.057	1.136	4.294	-4.987	4.281	-4.168	2.210
Yaw	DEG	-0.311	0.616	1.440	-2.144	1.982	-2.604	6.737
Pt Surge	FEET	-7.500	7.627	13.185	-29.454	20.873	-35.872	-4.043
Pt Sway	FEET	-0.866	1.246	2.262	-4.415	3.768	-5.500	28.081
Pt Heave	FEET	1.613	3.692	14.815	-8.886	15.348	-12.123	1.724



ASOP300.HDR, 363.ZER, and 363.TST processed 19:50:07 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
WAVE-1	FEET	-0.000	0.021	0.011	-0.038	0.078	-0.078	-0.011
WAVE-2	FEET	0.319	12.241	50.550	-44.944	45.855	-45.218	1.139
IRGAP	FEET	-2.761	12.460	35.385	-39.641	43.590	-49.111	73.507
ML-1	KIPS	378.678	115.026	1721.684	148.807	806.576	-49.220	248.728
ML-2	KIPS	405.330	73.127	1384.537	236.726	677.364	133.296	326.656
ML-3	KIPS	171.615	52.835	352.208	38.597	368.160	-24.930	211.032
ML-4	KIPS	70.826	57.673	289.737	-41.049	285.369	-143.717	129.355
ML-5	KIPS	270.381	38.929	392.338	162.009	415.195	125.567	309.708
ML-6	KIPS	274.161	71.447	742.382	93.087	539.946	8.376	185.377
ST-1	KIPS	-76.848	320.383	886.551	%-1312.326	1114.978	%-1268.674	432.
ST-2	KIPS	59.837	252.494	812.460	%-1506.680	999.115	-879.441	-999.23
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-20.070	14.667	23.159	-72.110	34.490	-74.630	4.402
MST Sway	FEET	-2.737	4.235	14.693	-14.409	13.018	-18.493	17.075
MST Heave	FEET	3.247	6.101	31.531	-13.552	25.943	-19.449	1.188
Roll	DEG	0.598	0.848	3.246	-1.711	3.754	-2.558	3.252
Pitch	DEG	-0.263	1.874	5.789	-8.978	6.707	-7.233	2.294
Yaw	DEG	-0.852	1.278	3.170	-4.615	3.902	-5.607	6.687
Pt Surge	FEET	-19.099	15.481	27.869	-70.388	38.489	-76.687	-4.978
Pt Sway	FEET	-0.626	2.772	10.356	-8.379	9.687	-10.939	27.546
Pt Heave	FEET	3.391	6.130	32.026	-13.537	26.193	-19.412	1.676

SOP400.HDR, 411.ZER, and 411.TST processed 19:50:31 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.002	0.020	0.011	-0.038	0.075	-0.071	-0.011
VE-2	FEET	0.196	3.161	7.912	-5.229	11.956	-11.564	-0.520
AIRGAP	FEET	1.958	6.658	13.852	-8.920	26.727	-22.811	69.022
ML-1	KIPS	264.936	12.407	287.818	223.706	311.092	218.781	272.019
ML-2	KIPS	207.712	7.300	222.876	182.015	234.869	180.555	204.661
ML-3	KIPS	256.777	10.353	275.054	235.853	295.289	218.265	251.856
ML-4	KIPS	237.551	12.094	269.851	213.270	282.540	192.562	224.457
ML-5	KIPS	299.000	7.836	311.209	281.894	328.150	269.850	289.029
ML-6	KIPS	257.586	8.174	273.101	226.112	287.992	227.180	253.356
BT-1	KIPS	-0.357	0.622	4.867	-5.480	1.956	-2.669	-987.895
T-2	KIPS	-3.282	2.949	4.996	-10.569	7.690	-14.255	-2111.418
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	1.717	2.270	7.032	-2.281	10.162	-6.729	-1.941
ST Sway	FEET	-1.306	1.141	0.780	-3.794	2.939	-5.550	11.845
MST Heave	FEET	0.758	0.549	2.523	-0.408	2.802	-1.285	0.555
Roll	DEG	0.680	0.196	0.973	0.030	1.411	-0.050	3.421
Pitch	DEG	0.861	0.414	1.564	-0.742	2.401	-0.679	1.147
Yaw	DEG	0.025	0.055	0.109	-0.087	0.229	-0.178	2.719
Pt Surge	FEET	-1.329	2.165	7.068	-4.381	6.726	-9.384	-6.559
Pt Sway	FEET	1.098	1.048	2.934	-1.170	4.997	-2.801	23.726
Pt Heave	FEET	0.802	0.554	2.535	-0.384	2.861	-1.258	0.957

SOP400.HDR, 412.ZER, and 412.TST processed 19:51:06 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.003	0.020	0.014	-0.036	0.079	-0.073	-0.014
VE-2	FEET	0.243	7.637	12.554	-12.086	28.653	-28.166	-0.453
AIRGAP	FEET	-1.805	6.597	8.529	-13.324	22.737	-26.347	71.640
ML-1	KIPS	302.536	17.153	334.833	227.980	366.345	238.728	256.046
ML-2	KIPS	230.469	10.771	252.593	193.159	270.538	190.401	198.744
ML-3	KIPS	259.935	12.778	288.121	231.497	307.469	212.402	264.454
ML-4	KIPS	218.737	17.462	252.442	178.450	283.695	153.778	239.049
ML-5	KIPS	297.318	10.995	319.584	269.331	338.220	256.416	304.444
ML-6	KIPS	295.130	11.506	320.089	243.199	337.931	252.329	251.713
PT-1	KIPS	-1.649	0.808	3.510	-6.838	1.357	-4.654	-991.711
PT-2	KIPS	-3.710	2.955	4.753	-10.812	7.281	-14.701	-2126.740
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-7.783	2.405	2.597	-13.102	1.165	-16.731	2.064
ST Sway	FEET	-1.039	0.635	0.755	-2.153	1.325	-3.403	10.762
ST Heave	FEET	1.988	2.150	6.572	-2.300	9.986	-6.011	0.427
Roll	DEG	0.199	0.078	0.411	-0.074	0.488	-0.091	4.134
Pitch	DEG	-0.125	1.006	1.946	-2.067	3.618	-3.869	2.124
Yaw	DEG	0.193	0.222	0.709	-0.047	1.020	-0.634	2.707
Pt Surge	FEET	-7.342	2.998	2.911	-12.969	3.812	-18.496	-6.107
Pt Sway	FEET	-0.337	0.629	1.440	-1.434	2.004	-2.678	24.997
Pt Heave	FEET	2.021	2.151	6.578	-2.299	10.022	-5.981	1.093

SOP400.HDR, 413.ZER, and 413.TST processed 19:51:56 02-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.003	0.021	0.014	-0.035	0.080	-0.074	-0.014
VE-2	FEET	0.143	6.528	9.801	-10.677	24.427	-24.141	-0.438
AIRGAP	FEET	0.117	3.086	3.953	-5.405	11.598	-11.364	71.943
ML-1	KIPS	256.340	27.361	309.188	206.610	358.124	154.557	250.879
ML-2	KIPS	202.380	20.042	237.734	167.157	276.937	127.823	198.473
ML-3	KIPS	301.002	22.648	349.101	257.631	385.252	216.752	304.044
ML-4	KIPS	257.441	28.534	313.376	200.212	363.586	151.296	261.838
ML-5	KIPS	331.368	21.382	374.026	281.894	410.908	251.829	332.148
ML-6	KIPS	282.805	21.501	324.361	243.199	362.786	202.823	276.467
PT-1	KIPS	-0.984	1.647	3.598	-1.576	5.143	-7.111	-1002.146
PT-2	KIPS	-0.266	1.569	5.188	-5.188	5.571	-6.104	-2142.740
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-0.897	2.815	5.191	-6.749	9.575	-11.370	2.982
ST Sway	FEET	-0.142	0.539	0.939	-1.289	1.861	-2.146	10.452
ST Heave	FEET	0.202	4.541	6.974	-6.611	17.093	-16.689	0.416
Roll	DEG	0.004	0.053	0.139	-0.140	0.202	-0.193	4.162
Pitch	DEG	0.047	0.717	1.202	-1.185	2.715	-2.621	2.014
Yaw	DEG	0.030	0.039	0.152	-0.073	0.173	-0.114	2.733
Pt Surge	FEET	-1.065	5.162	9.361	-10.947	18.137	-20.267	-4.812
Pt Sway	FEET	-0.127	0.657	1.322	-1.462	2.318	-2.573	24.798
Pt Heave	FEET	0.218	4.541	6.974	-6.611	17.110	-16.674	1.075

SOP400.HDR, 422.ZER, and 422.TST processed 11:32:58 02-26-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	-0.002	0.021	0.009	-0.040	0.075	-0.079	-0.009
E-2	FEET	0.449	5.695	28.882	-17.934	21.633	-20.734	-0.409
AIRGAP	FEET	-0.999	8.213	24.621	-28.930	29.555	-31.553	72.858
L-1	KIPS	333.115	41.228	450.234	227.980	486.483	179.748	298.800
L-2	KIPS	225.908	23.392	300.883	163.442	312.924	138.891	201.228
ML-3	KIPS	466.727	18.676	532.041	410.081	536.201	397.252	453.667
ML-4	KIPS	231.539	33.932	335.138	139.278	357.764	105.314	253.652
L-5	KIPS	336.811	23.247	407.528	273.519	423.291	250.331	340.080
ML-6	KIPS	341.324	26.428	422.610	273.101	439.638	243.011	305.945
BT-1	KIPS	-6.143	2.804	2.330	-13.192	4.287	-16.574	-1011.226
T-2	KIPS	-4.554	3.982	5.085	-15.668	10.259	-19.366	-2173.766
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-5.849	6.159	9.312	-23.742	17.064	-28.761	2.468
ST Sway	FEET	-0.627	1.442	3.955	-4.066	4.736	-5.989	10.173
MST Heave	FEET	1.509	3.241	11.073	-7.200	13.567	-10.549	0.439
Roll	DEG	0.131	0.219	0.921	-0.657	0.945	-0.684	4.217
Pitch	DEG	0.005	1.235	3.603	-4.804	4.597	-4.588	2.060
Yaw	DEG	-0.279	0.376	0.994	-1.610	1.121	-1.679	2.954
Pt Surge	FEET	-5.862	6.337	10.501	-22.795	17.712	-29.437	-5.554
St Sway	FEET	-0.158	1.143	3.144	-2.881	4.094	-4.410	24.677
Pt Heave	FEET	1.558	3.249	11.091	-7.154	13.644	-10.528	1.118

SOP400.HDR, 423.ZER, and 423.TST processed 09:20:29 02-26-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
AVE-1	FEET	0.003	0.021	0.014	-0.035	0.080	-0.075	-0.014
E-2	FEET	0.395	12.509	50.678	-44.324	46.931	-46.140	0.026
AIRGAP	FEET	-4.858	12.509	35.994	-50.011	41.677	-51.394	72.681
L-1	KIPS	506.058	154.897	2818.098	266.447	1082.276	-70.161	375.871
L-2	KIPS	270.428	65.729	1270.393	118.867	514.938	25.918	193.367
ML-3	KIPS	299.861	30.255	401.370	192.296	412.411	187.311	331.709
L-4	KIPS	148.210	56.651	400.425	13.057	358.953	-62.532	215.126
L-5	KIPS	340.392	37.586	528.974	231.641	480.212	200.572	374.289
ML-6	KIPS	467.586	71.305	1447.813	328.633	732.840	202.332	376.278
PT-1	KIPS	3.285	2.362	7.924	-2.424	12.071	-5.500	-1063.385
T-2	KIPS	-5.089	16.170	18.322	-54.313	55.065	-65.244	-2212.944
BEX-1	FEET	0.000	0.000	0.000	0.000	0.000	0.000	59.720
BEX-2	FEET	0.000	0.000	0.000	0.000	0.000	0.000	60.180
ST Surge	FEET	-22.644	13.019	16.381	-89.815	25.789	-71.076	3.567
ST Sway	FEET	-1.447	2.363	8.119	-6.838	7.345	-10.238	12.991
MST Heave	FEET	3.216	5.429	32.308	-12.573	23.412	-16.980	0.870
Roll	DEG	0.492	0.463	2.201	-1.474	2.215	-1.232	2.412
Pitch	DEG	-1.458	2.256	4.123	-11.546	6.934	-9.850	2.886
Yaw	DEG	0.672	0.713	2.648	-1.049	3.326	-1.981	2.841
Pt Surge	FEET	-17.515	13.499	26.007	-78.451	32.701	-67.732	-7.034
Pt Sway	FEET	0.371	2.418	8.992	-6.301	9.365	-8.624	21.002
Pt Heave	FEET	3.452	5.516	33.758	-12.428	23.970	-17.066	1.307

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ASOP2FLT.HDR, A531.ZER, and A531.TST processed 09:36:55 04-17-1996

[illegible]



[illegible]

ASOP2FLT.HDR, A533.ZER, and A533.TST processed 09:39:03 04-17-1996

[illegible]

[illegible]

[illegible]

ASOP2FLT.HDR, A536.ZER, and A536.TST processed 09:46:18 04-17-1996

[illegible]

[illegible]

ASOP2FLT.HDR, A538.ZER, and A538.TST processed 09:54:58 04-17-1996

[illegible]

ASOP2FLT.HDR, A539.ZER, and A539.TST processed 09:57:00 04-17-1996

[illegible]





ASOP2FL2.HDR, A541.ZER, and A541.TST processed 14:19:36 04-17-1996

[illegible]

ASOP2FL2.HDR, A542.ZER, and A542.TST processed 14:26:25 04-17-1996

[illegible]

ASOP2FL2.HDR, A545.ZER, and A545.TST processed 14:45:17 04-17-1996

[illegible]

ASOP2FL2.HDR, A544.ZER, and A544.TST processed 14:38:30 04-17-1996

[illegible]

ASOP2FL2.HDR, A543.ZER, and A543.TST processed 14:31:58 04-17-1996

[illegible]

ASOP2FL2.HDR, A546.ZER, and A546.TST processed 16:45:39 04-17-1996

[illegible]

ASOP2FL2.HDR, A547.ZER, and A547.TST processed 16:58:26 04-17-1996

[illegible]



ASOP2-1.HDR, A551.ZER, and A551.TST processed 16:20:22 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.347	4.171	6.473	-8.239	15.171	-15.864	-4.289
WAVE1	Feet	0.547	4.730	9.533	-7.540	18.143	-17.049	-0.037
WAVE2	Feet	0.313	5.222	9.445	-8.601	19.737	-19.111	-14.713
WAVE3	Feet	0.247	2.784	5.150	-4.689	10.602	-10.108	-21.235
ML_1	Kips	325.475	55.342	435.890	230.765	531.348	119.603	386.399
ML_2	Kips	312.297	28.201	366.269	259.588	417.204	207.389	338.295
ML_3	Kips	301.282	27.665	348.534	254.140	404.195	198.369	270.114
ML_4	Kips	275.855	53.930	364.100	187.681	476.475	75.235	215.596
ML_5	Kips	291.399	26.040	340.182	246.458	388.267	194.530	260.086
ML_6	Kips	306.863	28.106	359.250	254.469	411.417	202.310	330.976
BT_1	Kips	1878.503	138.481	2194.352	1521.283	2393.654	1363.353	1886.104
BT_3	Kips	1839.196	100.647	2070.977	1596.434	2213.601	1464.790	1852.090
MST Surge	Feet	9.699	9.880	28.477	-7.412	46.452	-27.054	-30.031
MST Sway	Feet	0.536	0.620	2.109	-1.118	2.843	-1.770	0.439
MST Heave	Feet	1.770	1.277	5.244	-1.436	6.520	-2.980	10.452
Roll	Degs	0.061	0.089	0.326	-0.237	0.393	-0.271	-0.424
Pitch	Degs	-0.059	0.570	1.236	-1.425	2.060	-2.177	-0.165
Yaw	Degs	0.150	0.115	0.500	-0.071	0.579	-0.279	-1.901
Pt Surge	Feet	9.906	9.554	26.134	-5.114	45.447	-25.635	-29.499
Pt Sway	Feet	0.751	0.578	2.036	-0.554	2.902	-1.399	-1.072
Pt Heave	Feet	1.781	1.277	5.247	-1.432	6.532	-2.971	10.458

ASOP2-1.HDR, A552.ZER, and A552.TST processed 16:21:57 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.199	4.941	9.169	-6.808	20.580	-16.182	-6.870
WAVE1	Feet	0.291	4.872	8.336	-8.838	18.414	-17.833	0.201
WAVE2	Feet	0.261	5.628	8.532	-9.575	21.197	-20.676	-14.709
WAVE3	Feet	0.334	3.450	5.851	-5.159	13.169	-12.500	-21.390
ML_1	Kips	343.475	19.751	391.935	296.698	416.949	270.001	296.155
ML_2	Kips	322.566	11.266	355.601	291.592	364.475	280.656	294.464
ML_3	Kips	293.888	10.453	315.859	265.031	332.774	255.002	308.329
ML_4	Kips	259.354	18.958	300.289	210.202	329.877	188.831	296.369
ML_5	Kips	282.675	10.539	308.940	253.401	321.880	243.469	300.455
ML_6	Kips	315.730	10.806	344.281	288.148	355.929	275.530	291.613
BT_1	Kips	1895.578	110.356	2120.431	1626.328	2306.103	1485.053	1885.527
BT_3	Kips	1860.220	91.907	2050.194	1651.855	2202.114	1518.326	1849.011
MST Surge	Feet	-7.781	3.331	-1.621	-15.355	4.612	-20.174	-15.459
MST Sway	Feet	-0.348	0.460	0.541	-2.007	1.363	-2.059	1.318
MST Heave	Feet	1.243	1.510	4.692	-2.167	6.860	-4.374	10.306
Roll	Degs	-0.033	0.042	0.073	-0.152	0.124	-0.190	-0.350
Pitch	Degs	-0.096	0.591	1.317	-1.419	2.101	-2.294	-0.109
Yaw	Degs	0.778	0.489	1.618	-0.147	2.599	-1.043	-2.215
Pt Surge	Feet	-7.441	3.168	-0.983	-14.687	4.346	-19.228	-15.122
Pt Sway	Feet	-0.459	0.499	0.388	-2.268	1.396	-2.315	0.072
Pt Heave	Feet	1.254	1.511	4.695	-2.167	6.875	-4.366	10.310

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.007	7.760	12.062	-12.650	28.876	-28.862	-4.821
WAVE1	Feet	0.449	8.587	13.652	-12.665	32.393	-31.495	0.290
WAVE2	Feet	0.140	8.051	12.454	-13.888	30.091	-29.810	-14.695
WAVE3	Feet	0.209	5.463	8.412	-8.767	20.530	-20.112	-21.374
ML_1	Kips	362.929	25.378	443.216	293.035	457.337	268.522	308.528
ML_2	Kips	331.117	15.400	369.825	291.592	388.405	273.828	302.076
ML_3	Kips	283.537	15.998	323.120	246.879	343.050	224.024	303.569
ML_4	Kips	241.330	24.525	307.796	180.173	332.564	150.095	283.495
ML_5	Kips	275.658	14.827	312.412	239.516	330.816	220.500	293.101
ML_6	Kips	326.350	15.970	362.992	284.406	385.760	266.940	296.326
BT_1	Kips	1864.504	124.424	2139.884	1540.736	2327.362	1401.646	1882.155
BT_3	Kips	1849.675	117.632	2105.615	1651.855	2287.264	1412.085	1854.886
MST Surge	Feet	-9.529	3.208	-0.336	-17.929	2.405	-21.463	-17.912
MST Sway	Feet	-0.300	0.691	1.258	-1.859	2.272	-2.872	1.148
MST Heave	Feet	1.206	3.062	7.050	-4.367	12.596	-10.184	10.274
Roll	Degs	-0.018	0.055	0.116	-0.195	0.187	-0.222	-0.373
Pitch	Degs	-0.214	0.897	1.413	-1.980	3.123	-3.550	-0.215
Yaw	Degs	-0.321	0.665	0.796	-1.384	2.152	-2.795	-1.679
Pt Surge	Feet	-8.776	3.882	2.247	-18.113	5.666	-23.219	-17.194
Pt Sway	Feet	-0.365	0.690	1.192	-2.075	2.202	-2.933	-0.188
Pt Heave	Feet	1.232	3.067	7.073	-4.360	12.640	-10.175	10.280

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.103	8.875	15.882	-12.393	35.118	-30.912	-6.572
WAVE1	Feet	0.442	8.189	14.956	-12.119	30.904	-30.020	0.299
WAVE2	Feet	0.176	8.330	13.859	-13.331	31.163	-30.811	-14.707
WAVE3	Feet	0.221	6.087	9.213	-9.215	22.865	-22.424	-21.394
ML_1	Kips	336.305	26.478	384.609	289.372	434.804	237.806	299.547
ML_2	Kips	316.998	17.638	348.489	288.036	382.611	251.386	297.625
ML_3	Kips	293.051	18.348	330.382	257.770	361.307	224.795	307.146
ML_4	Kips	263.139	26.864	319.057	213.956	363.072	163.205	291.948
ML_5	Kips	284.651	17.446	315.883	249.929	349.552	219.751	297.832
ML_6	Kips	311.658	17.860	344.281	276.922	378.099	245.218	291.891
BT_1	Kips	1869.990	100.296	2081.526	1735.264	2243.091	1496.890	1883.942
BT_3	Kips	1847.763	103.693	2053.658	1658.783	2233.500	1462.026	1854.219
MST Surge	Feet	-5.867	1.207	-2.985	-8.779	-1.376	-10.358	-16.597
MST Sway	Feet	-0.443	0.500	0.615	-1.696	1.417	-2.302	1.514
MST Heave	Feet	0.544	3.954	6.939	-5.888	15.253	-14.164	10.393
Roll	Degs	-0.026	0.042	0.092	-0.146	0.130	-0.182	-0.337
Pitch	Degs	-0.187	0.824	1.263	-1.642	2.877	-3.250	-0.158
Yaw	Degs	-0.124	0.348	0.578	-0.850	1.172	-1.420	-1.824
Pt Surge	Feet	-5.210	3.386	1.290	-11.684	7.387	-17.806	-16.079
Pt Sway	Feet	-0.535	0.545	0.730	-1.965	1.491	-2.562	0.310
Pt Heave	Feet	0.566	3.957	6.945	-5.888	15.287	-14.154	10.397

ASOP2-1.HDR, A555.ZER, and A555.TST processed 16:42:56 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.372	9.373	15.256	-15.089	35.241	-34.496	-4.566
WAVE1	Feet	0.390	7.452	12.294	-12.609	28.110	-27.330	0.385
WAVE2	Feet	-0.003	8.438	11.917	-12.729	31.386	-31.392	-14.642
WAVE3	Feet	0.017	6.591	9.742	-9.936	24.536	-24.502	-21.298
ML_1	Kips	313.202	40.320	399.260	223.439	463.193	163.211	326.002
ML_2	Kips	305.464	25.633	355.601	248.920	400.817	210.111	311.770
ML_3	Kips	302.668	22.592	352.165	257.770	386.711	218.625	294.668
ML_4	Kips	282.731	39.647	371.608	202.695	430.218	135.243	266.562
ML_5	Kips	292.941	24.471	343.653	242.987	383.974	201.907	284.565
ML_6	Kips	298.294	22.953	344.281	250.727	383.678	212.909	304.697
BT_1	Kips	1881.659	65.547	2007.605	1750.827	2125.495	1637.823	1884.317
BT_3	Kips	1852.468	83.108	2001.701	1696.885	2161.628	1543.308	1855.092
MST Surge	Feet	2.433	4.747	13.119	-6.811	20.093	-15.228	-20.688
MST Sway	Feet	0.245	0.605	1.550	-1.158	2.495	-2.005	0.858
MST Heave	Feet	0.341	4.552	7.486	-6.754	17.274	-16.592	10.400
Roll	Degs	0.012	0.074	0.193	-0.144	0.288	-0.265	-0.358
Pitch	Degs	0.061	0.737	1.307	-1.135	2.802	-2.679	-0.195
Yaw	Degs	-0.020	0.176	0.292	-0.435	0.637	-0.676	-2.109
Pt Surge	Feet	2.216	5.849	16.919	-10.237	23.974	-19.542	-20.050
Pt Sway	Feet	0.286	0.730	1.986	-1.474	3.001	-2.428	-0.425
Pt Heave	Feet	0.358	4.552	7.487	-6.753	17.290	-16.574	10.405

ASOP2-1.HDR, A556.ZER, and A556.TST processed 15:45:13 04-19-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.469	4.728	17.639	-17.993	17.120	-18.058	-4.650
WAVE1	Feet	0.614	5.650	23.143	-19.086	21.632	-20.405	19.288
WAVE2	Feet	0.257	5.121	21.128	-18.900	19.307	-18.794	6.849
WAVE3	Feet	0.307	2.842	10.580	-11.128	10.879	-10.265	5.505
ML_1	Kips	332.368	48.984	604.385	227.102	514.589	150.147	311.594
ML_2	Kips	309.667	20.094	376.937	263.144	384.418	234.916	300.364
ML_3	Kips	259.928	20.613	330.382	199.681	336.610	183.246	263.956
ML_4	Kips	255.230	33.350	371.608	168.913	379.293	131.168	262.725
ML_5	Kips	265.704	19.572	326.297	208.274	338.513	192.894	269.934
ML_6	Kips	300.549	22.388	377.961	243.242	383.832	217.267	289.562
BT_1	Kips	1863.522	231.726	2571.738	1136.116	2725.542	1001.503	1879.273
BT_3	Kips	1821.164	187.256	2375.793	1260.444	2517.757	1124.570	1816.117
MST Surge	Feet	-4.394	10.640	30.002	-37.020	35.186	-43.975	-2.299
MST Sway	Feet	-0.021	0.619	1.694	-1.930	2.281	-2.323	4.279
MST Heave	Feet	1.064	3.642	12.958	-8.458	14.613	-12.484	10.953
Roll	Degs	-0.062	0.160	0.419	-0.696	0.532	-0.656	0.131
Pitch	Degs	-0.150	1.213	3.320	-3.727	4.361	-4.662	-0.419
Yaw	Degs	-0.341	0.387	0.945	-1.495	1.101	-1.782	0.016
Pt Surge	Feet	-3.866	9.666	24.294	-32.159	32.093	-39.825	-0.825
Pt Sway	Feet	-0.242	0.513	1.426	-2.058	1.668	-2.152	4.742
Pt Heave	Feet	1.111	3.641	12.958	-8.450	14.654	-12.432	10.959

20' 115 JS

ASOP2-1.HDR, A556B.ZER, and A556B.TST processed 17:12:00 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.244	4.672	17.059	-16.849	17.134	-17.623	-4.301
WAVE1	Feet	0.583	5.782	23.768	-18.158	22.093	-20.927	0.378
WAVE2	Feet	0.334	5.552	26.650	-18.647	20.989	-20.320	-14.660
WAVE3	Feet	0.409	3.062	10.880	-11.687	11.800	-10.982	-21.343
ML_1	Kips	354.639	64.652	743.577	216.113	595.143	114.134	310.970
ML_2	Kips	326.799	27.355	412.497	252.476	428.559	225.039	304.789
ML_3	Kips	289.242	26.387	363.057	214.203	387.400	191.084	301.794
ML_4	Kips	252.588	47.274	386.622	112.608	428.447	76.728	279.881
ML_5	Kips	279.493	25.760	350.595	215.217	375.320	183.665	291.738
ML_6	Kips	316.611	26.341	411.641	250.727	414.599	218.623	295.411
BT_1	Kips	1870.687	253.544	2626.206	1132.225	2813.869	927.505	1880.311
BT_3	Kips	1846.026	194.507	2472.780	1256.980	2569.593	1122.458	1859.864
MST Surge	Feet	-6.443	9.346	20.304	-34.359	28.324	-41.210	-18.473
MST Sway	Feet	-0.481	0.824	1.577	-2.901	2.583	-3.546	1.097
MST Heave	Feet	1.034	4.014	13.682	-9.340	15.968	-13.900	10.284
Roll	Degs	0.034	0.110	0.327	-0.387	0.444	-0.376	-0.342
Pitch	Degs	-0.065	1.352	3.550	-3.645	4.963	-5.094	-0.202
Yaw	Degs	0.144	0.340	1.023	-0.923	1.407	-1.119	-2.036
Pt Surge	Feet	-6.213	8.279	15.684	-34.961	24.584	-37.010	-17.807
Pt Sway	Feet	-0.361	0.760	1.332	-2.718	2.468	-3.190	-0.132
Pt Heave	Feet	1.091	4.013	13.683	-9.259	16.020	-13.839	10.289

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.021	11.077	48.444	-52.590	41.227	-41.186	-4.536
WAVE1	Feet	0.612	11.036	46.784	-42.017	41.666	-40.441	0.495
WAVE2	Feet	-0.095	10.795	46.644	-41.587	40.063	-40.253	-14.609
WAVE3	Feet	-0.112	7.056	26.578	-29.253	26.136	-26.361	-21.268
ML_1	Kips	467.630	168.891	1424.883	139.192	1095.905	-160.644	299.710
ML_2	Kips	360.311	49.217	650.749	202.692	543.399	177.222	299.574
ML_3	Kips	264.480	39.850	381.209	159.745	412.721	116.239	306.877
ML_4	Kips	210.134	74.584	521.752	41.290	487.585	-67.317	294.339
ML_5	Kips	258.995	40.793	392.250	145.792	410.746	107.244	295.544
ML_6	Kips	351.152	45.483	666.109	209.563	520.348	181.957	292.916
BT_1	Kips	1818.344	330.073	2820.735	494.171	3046.217	590.471	1885.902
BT_3	Kips	1818.821	265.701	2753.350	661.203	2807.227	830.415	1850.165
MST Surge	Feet	-19.726	14.250	29.412	-67.741	33.283	-72.735	-16.761
MST Sway	Feet	-0.926	1.645	4.533	-5.446	5.195	-7.047	1.051
MST Heave	Feet	1.758	5.847	21.037	-19.525	23.509	-19.992	10.260
Roll	Degs	-0.110	0.214	0.872	-1.075	0.684	-0.904	-0.282
Pitch	Degs	-0.508	1.592	4.151	-8.102	5.414	-6.429	-0.160
Yaw	Degs	0.076	0.595	1.407	-1.734	2.291	-2.138	-1.926
Pt Surge	Feet	-17.940	13.869	29.994	-55.861	33.654	-69.534	-16.233
Pt Sway	Feet	-1.311	1.517	2.925	-5.880	4.332	-6.954	0.039
Pt Heave	Feet	1.846	5.877	22.405	-19.518	23.709	-20.017	10.263



ASOP2-1.HDR, A568.ZER, and A568.TST processed 18:20:00 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	61.435	0.117	61.747	61.173	61.870	60.999	-85.885
WAVE1	Feet	-0.208	0.230	0.498	-0.866	0.647	-1.064	0.765
WAVE2	Feet	0.948	0.257	1.691	0.480	1.902	-0.006	-15.013
WAVE3	Feet	1.083	0.296	1.995	0.589	2.184	-0.018	-21.673
ML_1	Kips	450.243	35.575	673.981	413.912	582.580	317.905	308.501
ML_2	Kips	376.103	8.525	416.053	359.157	407.816	344.390	306.896
ML_3	Kips	250.325	6.024	265.031	225.095	272.733	227.916	298.782
ML_4	Kips	164.677	9.681	176.420	108.855	200.691	128.663	284.413
ML_5	Kips	228.587	7.258	242.987	197.861	255.586	201.588	290.376
ML_6	Kips	343.941	6.697	374.219	329.313	368.853	319.030	291.780
BT_1	Kips	1937.431	10.543	1988.152	1898.669	1976.651	1898.212	1880.513
BT_3	Kips	1899.043	8.292	1928.961	1877.003	1929.887	1868.199	1863.969
MST Surge	Feet	-20.486	2.159	-17.917	-32.950	-12.453	-28.519	-18.704
MST Sway	Feet	-3.198	1.055	-1.026	-5.886	0.727	-7.123	1.268
MST Heave	Feet	-0.618	0.172	0.116	-1.632	0.022	-1.258	10.075
Roll	Degs	-0.121	0.041	-0.009	-0.237	0.034	-0.275	-0.339
Pitch	Degs	0.317	0.111	0.618	0.038	0.731	-0.096	-0.316
Yaw	Degs	-0.687	0.349	0.229	-1.406	0.610	-1.985	-1.631
Pt Surge	Feet	-21.609	2.136	-19.183	-33.911	-13.664	-29.554	-17.626
Pt Sway	Feet	-3.609	1.134	-1.229	-6.564	0.611	-7.828	0.042
Pt Heave	Feet	-0.614	0.173	0.124	-1.627	0.028	-1.257	10.082

ASOP2-1.HDR, A569.ZER, and A569.TST processed 18:22:41 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	61.415	0.106	61.632	61.173	61.809	61.022	-85.885
WAVE1	Feet	-0.314	0.161	-0.007	-0.765	0.286	-0.915	0.765
WAVE2	Feet	1.002	0.177	1.509	0.540	1.660	0.344	-15.013
WAVE3	Feet	1.157	0.196	1.683	0.746	1.887	0.427	-21.673
ML_1	Kips	80.128	4.696	91.573	58.607	97.597	62.660	308.501
ML_2	Kips	190.284	7.549	202.692	167.132	218.367	162.201	306.896
ML_3	Kips	442.122	12.518	486.496	421.146	488.690	395.555	298.782
ML_4	Kips	731.813	31.870	912.128	675.650	850.369	613.256	284.413
ML_5	Kips	420.271	8.758	454.732	406.135	452.849	387.693	290.376
ML_6	Kips	179.094	5.454	190.852	164.656	199.381	158.806	291.780
BT_1	Kips	1782.163	15.935	1828.638	1739.155	1841.441	1722.884	1880.513
BT_3	Kips	1824.496	15.346	1866.612	1786.944	1881.585	1767.407	1863.969
MST Surge	Feet	52.868	1.338	60.420	48.784	57.847	47.890	-18.704
MST Sway	Feet	1.659	1.313	4.492	-1.023	6.543	-3.225	1.268
MST Heave	Feet	0.991	0.204	1.677	0.489	1.751	0.231	10.075
Roll	Degs	0.249	0.081	0.454	-0.065	0.551	-0.053	-0.339
Pitch	Degs	-0.957	0.095	-0.676	-1.202	-0.605	-1.309	-0.316
Yaw	Degs	0.276	0.490	1.216	-0.757	2.100	-1.548	-1.631
Pt Surge	Feet	56.232	1.349	64.202	51.701	61.251	51.212	-17.626
Pt Sway	Feet	2.552	1.351	5.329	-0.246	7.576	-2.473	0.042
Pt Heave	Feet	1.022	0.203	1.710	0.513	1.775	0.268	10.082

ASOP2-1.HDR, A570.ZER, and A570.TST processed 18:29:54 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	61.447	0.095	61.747	61.173	61.798	61.095	-85.885
WAVE1	Feet	-0.088	0.119	0.144	-0.512	0.356	-0.532	0.765
WAVE2	Feet	1.147	0.132	1.630	0.843	1.639	0.655	-15.013
WAVE3	Feet	1.326	0.150	1.839	0.980	1.883	0.769	-21.673
ML_1	Kips	1344.330	43.388	1505.468	1252.725	1505.734	1182.925	308.501
ML_2	Kips	662.389	42.644	789.433	586.741	821.024	503.753	306.896
ML_3	Kips	192.161	9.223	217.834	167.006	226.470	157.853	298.782
ML_4	Kips	34.695	2.479	41.290	30.029	43.919	25.472	284.413
ML_5	Kips	169.980	7.860	187.447	145.792	199.220	140.739	290.376
ML_6	Kips	529.542	38.871	654.883	441.578	674.143	384.940	291.780
BT_1	Kips	2228.606	24.519	2408.334	2178.790	2319.816	2137.396	1880.513
BT_3	Kips	2095.967	22.176	2247.632	2046.731	2178.461	2013.472	1863.969
MST Surge	Feet	-62.897	1.389	-60.535	-68.258	-57.731	-68.062	-18.704
MST Sway	Feet	-9.108	2.634	-1.984	-14.779	0.689	-18.906	1.268
MST Heave	Feet	-4.413	0.241	-3.478	-5.683	-3.516	-5.310	10.075
Roll	Degs	-0.226	0.110	0.103	-0.496	0.183	-0.635	-0.339
Pitch	Degs	1.313	0.125	2.050	1.038	1.778	0.848	-0.316
Yaw	Degs	-1.769	0.743	0.515	-3.015	0.996	-4.533	-1.631
Pt Surge	Feet	-67.541	1.447	-64.700	-72.711	-62.157	-72.925	-17.626
Pt Sway	Feet	-9.763	2.555	-3.077	-15.724	-0.257	-19.270	0.042
Pt Heave	Feet	-4.357	0.237	-3.398	-5.548	-3.474	-5.241	10.082

ASOP2-1.HDR, A571.ZER, and A571.TST processed 18:35:53 04-22-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	61.516	0.107	61.862	61.173	61.913	61.120	-85.885
WAVE1	Feet	-0.485	0.155	-0.209	-1.068	0.091	-1.060	0.765
WAVE2	Feet	1.329	0.201	1.933	0.782	2.077	0.581	-15.013
WAVE3	Feet	1.538	0.216	2.151	0.902	2.341	0.735	-21.673
ML_1	Kips	97.077	3.567	106.225	87.911	110.345	83.809	308.501
ML_2	Kips	182.680	6.035	199.136	170.688	205.131	160.229	306.896
ML_3	Kips	843.312	52.571	1085.539	751.527	1038.877	647.747	298.782
ML_4	Kips	1997.772	77.244	2274.690	1854.285	2285.120	1710.423	284.413
ML_5	Kips	767.288	38.444	871.281	683.834	910.301	624.275	290.376
ML_6	Kips	182.911	7.652	205.820	153.430	211.378	154.444	291.780
BT_1	Kips	1702.675	30.052	1778.061	1599.094	1814.469	1590.882	1880.513
BT_3	Kips	1895.549	22.894	1963.599	1842.365	1980.716	1810.382	1863.969
MST Surge	Feet	98.286	1.633	104.570	95.555	104.361	92.211	-18.704
MST Sway	Feet	4.853	2.360	10.609	0.324	13.632	-3.925	1.268
MST Heave	Feet	-2.221	0.784	-0.283	-4.530	0.693	-5.136	10.075
Roll	Degs	0.284	0.163	0.576	-0.134	0.891	-0.324	-0.339
Pitch	Degs	-2.768	0.345	-1.993	-3.824	-1.485	-4.051	-0.316
Yaw	Degs	0.281	0.900	2.150	-1.302	3.627	-3.065	-1.631
Pt Surge	Feet	108.019	2.364	116.392	103.147	116.815	99.223	-17.626
Pt Sway	Feet	5.892	2.010	10.919	1.380	13.369	-1.585	0.042
Pt Heave	Feet	-1.979	0.731	-0.139	-4.105	0.741	-4.699	10.082

ASOP2-1.HDR, A581.ZER, and A581.TST processed 14:00:33 04-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-1.025	4.354	6.038	-9.019	15.173	-17.222	-3.510
WAVE1	Feet	0.493	5.422	7.954	-8.816	20.663	-19.677	-0.479
WAVE2	Feet	0.262	5.446	8.115	-8.962	20.520	-19.997	0.787
WAVE3	Feet	0.337	2.882	4.689	-4.525	11.057	-10.383	-2.112
ML_1	Kips	280.680	27.832	329.665	234.428	384.213	177.146	261.371
ML_2	Kips	297.937	13.335	323.597	273.812	347.542	248.332	285.218
ML_3	Kips	297.706	15.408	334.012	268.662	355.025	240.388	303.193
ML_4	Kips	310.695	15.529	337.825	285.275	368.462	252.928	301.318
ML_5	Kips	279.718	13.837	312.412	253.401	331.191	228.244	289.116
ML_6	Kips	261.790	27.494	318.086	213.305	364.070	159.511	277.033
BT_1	Kips	335.669	1.723	338.548	330.766	342.080	329.259	335.637
BT_3	Kips	269.933	0.831	273.256	266.328	273.025	266.840	269.715
MST Surge	Feet	-2.982	5.880	8.616	-13.508	18.891	-24.855	-1.179
MST Sway	Feet	-0.448	0.295	0.228	-1.120	0.650	-1.546	-8.817
MST Heave	Feet	0.678	0.871	2.591	-1.340	3.918	-2.561	9.403
Roll	Degs	-0.043	0.026	0.036	-0.125	0.054	-0.140	-0.099
Pitch	Degs	0.070	0.419	0.936	-0.712	1.629	-1.488	-0.083
Yaw	Degs	0.063	0.094	0.370	-0.123	0.413	-0.286	-1.590
Pt Surge	Feet	-3.229	5.794	6.933	-12.223	18.325	-24.783	-0.896
Pt Sway	Feet	-0.600	0.307	0.120	-1.379	0.541	-1.741	-9.172
Pt Heave	Feet	0.684	0.871	2.592	-1.339	3.922	-2.554	9.403

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.041	5.001	7.287	-9.379	18.563	-18.645	-4.759
WAVE1	Feet	0.231	5.416	7.759	-9.264	20.380	-19.918	-0.333
WAVE2	Feet	0.162	5.823	8.539	-8.659	21.823	-21.498	0.847
WAVE3	Feet	0.212	3.571	5.922	-5.010	13.497	-13.074	-2.018
ML_1	Kips	280.555	28.432	336.990	223.439	386.321	174.789	243.409
ML_2	Kips	296.874	13.748	327.153	266.700	348.015	245.733	278.844
ML_3	Kips	296.783	16.493	330.382	265.031	358.138	235.428	315.268
ML_4	Kips	310.879	16.950	345.332	274.014	373.934	247.824	289.473
ML_5	Kips	279.983	14.007	308.940	253.401	332.089	227.878	295.544
ML_6	Kips	261.914	27.930	314.344	213.305	365.812	158.016	295.134
BT_1	Kips	335.542	1.647	338.548	330.766	341.668	329.416	335.377
BT_3	Kips	270.234	1.165	273.256	266.328	274.566	265.901	269.843
MST Surge	Feet	-7.531	5.740	2.875	-17.314	13.820	-28.882	3.407
MST Sway	Feet	0.270	0.388	1.357	-0.934	1.714	-1.173	-9.126
MST Heave	Feet	0.534	1.462	3.455	-2.274	5.973	-4.905	9.462
Roll	Degs	-0.063	0.037	0.026	-0.151	0.073	-0.199	-0.122
Pitch	Degs	0.015	0.618	1.076	-1.071	2.316	-2.286	0.018
Yaw	Degs	-0.182	0.078	0.003	-0.360	0.108	-0.471	-1.301
Pt Surge	Feet	-7.585	5.826	3.080	-17.117	14.089	-29.259	3.336
Pt Sway	Feet	0.048	0.389	1.081	-1.051	1.494	-1.398	-9.554
Pt Heave	Feet	0.546	1.462	3.460	-2.272	5.985	-4.893	9.463

ASOP2-1.HDR, A583.ZER, and A583.TST processed 14:53:03 04-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.587	7.842	11.696	-13.016	28.585	-29.758	-4.570
WAVE1	Feet	0.396	8.341	13.259	-13.614	31.424	-30.632	-0.327
WAVE2	Feet	0.093	8.024	12.381	-13.113	29.943	-29.756	0.820
WAVE3	Feet	0.136	5.418	8.227	-8.718	20.290	-20.018	-2.058
ML_1	Kips	281.256	21.282	329.665	238.091	360.426	202.086	270.294
ML_2	Kips	297.628	14.465	330.709	270.256	351.437	243.819	291.296
ML_3	Kips	297.575	14.209	326.751	268.662	350.431	244.719	300.329
ML_4	Kips	310.963	15.022	341.579	281.521	366.843	255.082	304.877
ML_5	Kips	280.380	14.650	308.940	249.929	334.877	225.883	283.581
ML_6	Kips	263.173	21.486	310.602	217.047	343.099	183.247	268.996
BT_1	Kips	335.464	1.613	338.548	330.766	341.463	329.465	335.495
BT_3	Kips	270.189	1.144	273.256	266.328	274.444	265.935	270.056
MST Surge	Feet	-2.074	2.320	3.304	-6.562	6.556	-10.705	-2.299
MST Sway	Feet	-0.135	0.251	0.450	-0.765	0.800	-1.070	-8.896
MST Heave	Feet	0.451	3.163	5.968	-4.756	12.217	-11.314	9.540
Roll	Degs	0.006	0.030	0.097	-0.079	0.116	-0.104	-0.160
Pitch	Degs	-0.034	0.926	1.376	-1.564	3.411	-3.479	0.032
Yaw	Degs	-0.015	0.144	0.311	-0.234	0.519	-0.549	-1.428
Pt Surge	Feet	-1.955	3.411	5.420	-9.976	10.735	-14.645	-2.425
Pt Sway	Feet	-0.115	0.280	0.607	-0.867	0.925	-1.155	-9.455
Pt Heave	Feet	0.477	3.164	5.987	-4.747	12.248	-11.293	9.541

ASOP2-1.HDR, A584.ZER, and A584.TST processed 15:00:12 04-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.263	8.900	13.645	-14.746	32.843	-33.370	-4.564
WAVE1	Feet	0.376	8.265	14.353	-11.408	31.121	-30.369	-0.412
WAVE2	Feet	0.100	8.486	13.034	-13.550	31.669	-31.468	0.772
WAVE3	Feet	0.116	6.177	9.683	-9.526	23.095	-22.864	-2.108
ML_1	Kips	282.158	26.819	333.327	219.776	381.923	182.393	264.112
ML_2	Kips	290.312	17.463	320.041	252.476	355.276	225.348	287.615
ML_3	Kips	294.513	18.665	337.643	257.770	363.948	225.077	307.845
ML_4	Kips	306.986	19.301	345.332	262.753	378.785	235.188	290.697
ML_5	Kips	274.807	17.855	315.883	242.987	341.227	208.386	275.925
ML_6	Kips	262.369	26.866	321.828	213.305	362.309	162.429	276.340
BT_1	Kips	336.040	1.877	338.548	330.766	343.024	329.057	337.078
BT_3	Kips	269.301	1.226	273.256	266.328	273.862	264.740	268.842
MST Surge	Feet	-3.822	2.518	2.869	-7.020	5.543	-13.188	-1.230
MST Sway	Feet	1.045	0.821	2.926	-0.474	4.100	-2.011	-10.521
MST Heave	Feet	0.386	3.891	6.785	-5.672	14.860	-14.088	8.845
Roll	Degs	0.034	0.043	0.151	-0.097	0.194	-0.125	-0.232
Pitch	Degs	-0.004	0.893	1.378	-1.407	3.317	-3.325	0.034
Yaw	Degs	-0.200	0.385	0.421	-0.903	1.231	-1.631	-1.174
Pt Surge	Feet	-3.808	4.393	7.817	-11.577	12.533	-20.148	-1.368
Pt Sway	Feet	1.165	0.907	3.353	-0.739	4.540	-2.209	-11.334
Pt Heave	Feet	0.411	3.891	6.798	-5.669	14.886	-14.065	8.847



ASOP2-1.HDR, A585.ZER, and A585.TST processed 15:01:59 04-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.499	9.349	17.044	-12.726	37.278	-32.280	-7.044
WAVE1	Feet	0.261	7.369	13.288	-12.070	27.672	-27.150	-0.256
WAVE2	Feet	0.067	8.324	11.703	-13.247	31.030	-30.897	0.772
WAVE3	Feet	0.072	6.459	9.545	-9.664	24.101	-23.956	-2.127
ML_1	Kips	277.481	33.932	347.979	201.462	403.709	151.254	286.198
ML_2	Kips	288.777	22.171	334.265	238.252	371.253	206.302	294.911
ML_3	Kips	297.454	20.498	337.643	254.140	373.708	221.201	293.027
ML_4	Kips	303.028	21.492	345.332	258.999	382.979	223.076	305.044
ML_5	Kips	276.436	22.607	326.297	229.102	360.534	192.338	268.237
ML_6	Kips	265.917	34.144	344.281	190.852	392.931	138.903	254.108
BT_1	Kips	334.834	0.923	338.548	330.766	338.267	331.400	335.320
BT_3	Kips	269.849	0.664	273.256	266.328	272.320	267.379	269.817
MST Surge	Feet	2.186	4.631	12.165	-6.717	19.415	-15.043	-5.904
MST Sway	Feet	0.517	0.583	1.984	-0.597	2.685	-1.650	-9.871
MST Heave	Feet	0.287	4.371	7.174	-6.474	16.547	-15.973	8.914
Roll	Degs	0.006	0.058	0.170	-0.126	0.223	-0.210	-0.221
Pitch	Degs	-0.060	0.781	1.248	-1.329	2.845	-2.965	0.032
Yaw	Degs	-0.033	0.270	0.499	-0.565	0.971	-1.036	-1.564
Pt Surge	Feet	2.398	6.125	16.473	-10.335	25.185	-20.389	-6.037
Pt Sway	Feet	0.539	0.729	2.572	-0.992	3.251	-2.172	-10.644
Pt Heave	Feet	0.306	4.373	7.179	-6.471	16.572	-15.960	8.915

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.884	4.690	18.481	-15.657	18.332	-16.563	-5.722
WAVE1	Feet	0.463	5.850	23.452	-20.342	22.227	-21.300	-0.267
WAVE2	Feet	0.297	5.515	22.862	-19.891	20.813	-20.219	0.755
WAVE3	Feet	0.367	3.025	10.344	-11.676	11.619	-10.885	-2.145
ML_1	Kips	300.112	32.017	391.935	212.450	419.213	181.010	282.535
ML_2	Kips	298.840	16.998	352.045	248.920	362.071	235.610	289.037
ML_3	Kips	286.361	19.453	344.904	228.726	358.726	213.996	291.898
ML_4	Kips	316.559	19.450	375.361	258.999	388.914	244.205	307.073
ML_5	Kips	267.475	17.940	319.354	218.688	334.211	200.738	274.459
ML_6	Kips	247.808	31.664	340.539	160.914	365.599	130.017	258.100
BT_1	Kips	334.074	1.506	338.548	330.766	339.676	328.472	334.916
BT_3	Kips	268.285	1.726	273.256	262.864	274.704	261.865	269.663
MST Surge	Feet	-2.964	6.351	15.944	-17.741	20.663	-26.590	-5.328
MST Sway	Feet	-0.371	0.645	1.375	-1.860	2.029	-2.772	-8.752
MST Heave	Feet	0.323	2.805	10.237	-7.225	10.757	-10.112	9.202
Roll	Degs	-0.039	0.059	0.157	-0.281	0.182	-0.259	-0.204
Pitch	Degs	-0.111	0.731	2.175	-2.436	2.607	-2.829	0.044
Yaw	Degs	0.521	0.286	1.175	-0.097	1.584	-0.542	-1.824
Pt Surge	Feet	-2.572	6.115	15.189	-18.517	20.175	-25.319	-5.504
Pt Sway	Feet	-0.504	0.647	1.044	-2.138	1.902	-2.910	-9.464
Pt Heave	Feet	0.340	2.806	10.240	-7.218	10.776	-10.097	9.204

ASOP2-1.HDR, A587.ZER, and A587.TST processed 15:28:13 04-23-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.225	11.007	47.494	-52.965	41.171	-40.721	-4.965
WAVE1	Feet	0.526	10.646	48.002	-44.638	40.130	-39.078	-0.268
WAVE2	Feet	-0.060	10.491	51.073	-41.275	38.967	-39.088	0.763
WAVE3	Feet	-0.111	6.820	27.088	-30.383	25.259	-25.481	-2.101
ML_1	Kips	340.429	88.049	1065.915	120.877	667.971	12.887	271.573
ML_2	Kips	314.972	35.341	504.953	192.024	446.442	183.503	286.456
ML_3	Kips	273.907	34.105	381.209	163.375	400.778	147.036	301.794
ML_4	Kips	333.188	38.338	641.868	202.695	475.806	190.570	298.065
ML_5	Kips	255.516	35.481	357.538	145.792	387.507	123.524	276.851
ML_6	Kips	225.934	58.547	407.898	71.102	443.728	8.140	274.316
BT_1	Kips	334.080	1.820	338.548	326.876	340.850	327.309	334.426
BT_3	Kips	266.925	1.421	269.792	262.864	272.211	261.639	266.123
MST Surge	Feet	-11.697	11.305	22.007	-51.859	30.357	-53.752	-2.308
MST Sway	Feet	-0.436	3.365	2.622	-48.598	12.082	-12.954	-9.817
MST Heave	Feet	0.719	5.491	26.091	-19.349	21.145	-19.707	9.102
Roll	Degs	0.099	0.949	15.178	-0.503	3.631	-3.432	-0.204
Pitch	Degs	-0.164	1.430	7.666	-6.375	5.153	-5.482	-0.003
Yaw	Degs	-0.254	0.660	1.103	-2.894	2.201	-2.709	-1.285
Pt Surge	Feet	-11.109	11.086	25.490	-51.308	30.129	-52.348	-2.314
Pt Sway	Feet	-0.092	1.109	3.883	-4.102	4.033	-4.217	-10.535
Pt Heave	Feet	0.811	5.464	26.651	-19.286	21.135	-19.514	9.103

ASOP2-1.HDR, A593.ZER, and A593.TST processed 10:41:31 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	1.037	4.356	8.055	-7.233	17.240	-15.167	-5.411
WAVE1	Feet	0.385	5.112	7.914	-8.957	19.402	-18.632	0.370
WAVE2	Feet	0.184	5.500	9.127	-8.495	20.644	-20.275	0.865
WAVE3	Feet	0.207	2.938	5.134	-4.627	11.136	-10.722	-2.011
ML_1	Kips	317.428	11.581	340.653	285.709	360.510	274.345	321.525
ML_2	Kips	323.715	6.262	337.821	305.816	347.009	300.421	324.090
ML_3	Kips	318.686	6.942	337.643	304.968	344.509	292.864	311.825
ML_4	Kips	308.780	12.098	337.825	281.521	353.784	263.775	298.464
ML_5	Kips	299.607	6.464	315.883	284.642	323.654	275.559	294.477
ML_6	Kips	316.017	6.505	329.313	295.633	340.214	291.820	317.800
BT_1	Kips	1475.787	117.415	1708.030	1221.708	1912.571	1039.003	1494.670
BT_3	Kips	1423.586	92.067	1606.826	1229.269	1766.076	1081.096	1445.710
MST Surge	Feet	0.717	2.143	7.522	-3.796	8.688	-7.255	-18.949
MST Sway	Feet	0.090	0.248	0.751	-0.598	1.011	-0.831	2.161
MST Heave	Feet	0.798	1.017	3.351	-1.890	4.579	-2.984	12.100
Roll	Degs	0.000	0.037	0.099	-0.111	0.137	-0.136	-0.267
Pitch	Degs	-0.015	0.422	1.128	-0.817	1.556	-1.586	0.289
Yaw	Degs	-0.017	0.036	0.100	-0.082	0.117	-0.152	-1.995
Pt Surge	Feet	0.769	1.758	5.056	-2.718	7.309	-5.771	-19.996
Pt Sway	Feet	0.090	0.226	0.694	-0.638	0.933	-0.752	1.257
Pt Heave	Feet	0.803	1.017	3.351	-1.890	4.586	-2.980	12.105

ASOP2-1.HDR, A594.ZER, and A594.TST processed 10:47:57 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.156	5.113	7.180	-9.257	18.865	-19.177	-4.536
WAVE1	Feet	0.178	5.137	7.715	-8.045	19.288	-18.931	0.417
WAVE2	Feet	0.144	5.743	8.408	-9.032	21.509	-21.222	0.796
WAVE3	Feet	0.157	3.546	5.690	-5.476	13.347	-13.032	-2.098
ML_1	Kips	313.731	13.423	344.316	278.383	363.665	263.796	306.764
ML_2	Kips	320.692	8.089	341.377	298.704	350.782	290.603	315.747
ML_3	Kips	321.433	7.893	341.273	301.337	350.795	292.071	319.086
ML_4	Kips	315.564	13.433	349.086	285.275	365.536	265.593	314.275
ML_5	Kips	304.283	8.141	326.297	281.170	334.569	273.997	302.692
ML_6	Kips	315.265	8.202	336.797	291.891	345.778	284.753	310.130
BT_1	Kips	1519.064	116.252	1723.593	1252.833	1951.521	1086.607	1495.518
BT_3	Kips	1454.902	89.413	1641.464	1246.589	1787.520	1122.284	1449.722
MST Surge	Feet	0.180	2.158	5.398	-5.645	8.207	-7.847	-16.605
MST Sway	Feet	-0.011	0.469	1.569	-1.125	1.734	-1.756	2.546
MST Heave	Feet	1.006	1.511	4.265	-2.385	6.628	-4.616	12.070
Roll	Degs	0.000	0.159	0.190	-0.667	0.594	-0.593	-0.292
Pitch	Degs	0.256	0.672	1.764	-1.097	2.755	-2.244	0.363
Yaw	Degs	0.058	0.066	0.219	-0.119	0.303	-0.186	-2.036
Pt Surge	Feet	-0.721	2.000	4.079	-5.357	6.718	-8.159	-17.918
Pt Sway	Feet	-0.010	0.405	0.953	-1.428	1.494	-1.515	1.563
Pt Heave	Feet	1.023	1.509	4.285	-2.362	6.635	-4.589	12.077

ASOP2-1.HDR, A595.ZER, and A595.TST processed 10:53:58 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	1.861	7.835	14.122	-10.705	31.007	-27.284	-6.766
WAVE1	Feet	0.365	8.370	12.195	-12.456	31.503	-30.773	0.383
WAVE2	Feet	0.134	8.021	12.891	-12.967	29.973	-29.705	0.795
WAVE3	Feet	0.141	5.438	8.822	-8.747	20.368	-20.087	-2.107
ML_1	Kips	330.207	20.610	377.283	285.709	406.875	253.540	308.582
ML_2	Kips	328.693	14.515	362.713	295.148	382.688	274.699	315.457
ML_3	Kips	317.829	14.605	352.165	286.815	372.161	263.498	318.253
ML_4	Kips	306.955	20.647	352.840	258.999	383.761	230.150	312.467
ML_5	Kips	301.693	14.213	333.239	270.757	354.566	248.819	300.944
ML_6	Kips	325.200	14.752	362.992	291.891	380.076	270.324	310.103
BT_1	Kips	1545.383	394.982	2396.662	443.593	3014.716	76.050	1500.619
BT_3	Kips	1450.514	313.315	2226.849	602.318	2616.047	284.982	1452.006
MST Surge	Feet	-3.170	8.804	14.654	-21.582	29.582	-35.921	-16.936
MST Sway	Feet	-0.667	4.015	11.108	-14.340	14.270	-15.604	2.510
MST Heave	Feet	1.712	3.455	9.573	-5.553	14.564	-11.139	11.854
Roll	Degs	0.029	1.102	3.960	-3.348	4.127	-4.070	-0.269
Pitch	Degs	-0.102	2.488	5.166	-5.665	9.154	-9.358	0.324
Yaw	Degs	-0.146	0.410	1.169	-0.959	1.380	-1.672	-2.000
Pt Surge	Feet	-2.817	2.622	3.137	-8.923	6.937	-12.571	-18.110
Pt Sway	Feet	-0.568	0.717	1.055	-2.496	2.099	-3.235	1.602
Pt Heave	Feet	1.940	3.470	9.697	-5.205	14.849	-10.969	11.860

ASOP2-1.HDR, A596.ZER, and A596.TST processed 10:59:55 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.276	8.919	16.358	-12.262	35.455	-30.902	-6.933
WAVE1	Feet	0.315	8.408	15.252	-12.984	31.593	-30.962	0.407
WAVE2	Feet	0.110	8.596	13.196	-14.720	32.089	-31.869	0.792
WAVE3	Feet	0.119	6.314	9.455	-9.832	23.608	-23.370	-2.115
ML_1	Kips	334.199	26.372	391.935	271.058	432.305	236.094	303.129
ML_2	Kips	330.251	18.059	369.825	288.036	397.432	263.070	312.481
ML_3	Kips	317.332	17.717	355.796	279.554	383.238	251.425	320.458
ML_4	Kips	304.922	26.378	367.854	251.492	403.047	206.797	316.749
ML_5	Kips	300.834	17.641	340.182	263.814	366.460	235.208	301.689
ML_6	Kips	325.820	18.014	362.992	284.406	392.833	258.806	305.889
BT_1	Kips	1569.277	420.012	2431.677	575.873	3131.720	6.834	1500.764
BT_3	Kips	1472.224	324.458	2164.500	681.986	2679.208	265.241	1441.820
MST Surge	Feet	-4.272	11.465	15.624	-29.103	38.378	-46.922	-16.414
MST Sway	Feet	-0.237	4.302	7.660	-9.043	15.769	-16.242	2.006
MST Heave	Feet	1.960	4.116	11.386	-6.462	17.273	-13.353	11.577
Roll	Degs	-0.021	1.183	2.479	-2.234	4.378	-4.420	-0.230
Pitch	Degs	-0.110	3.107	5.676	-6.246	11.450	-11.669	0.331
Yaw	Degs	0.048	0.454	0.951	-1.073	1.735	-1.639	-1.860
Pt Surge	Feet	-3.890	3.645	4.697	-12.521	9.671	-17.451	-17.606
Pt Sway	Feet	-0.321	0.661	1.140	-2.259	2.136	-2.778	1.235
Pt Heave	Feet	2.300	4.126	11.428	-6.440	17.650	-13.050	11.582

ASOP2-1.HDR, A597.ZER, and A597.TST processed 11:06:53 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.102	9.350	14.357	-15.528	34.679	-34.882	-4.357
WAVE1	Feet	0.286	7.297	13.178	-11.321	27.431	-26.858	0.410
WAVE2	Feet	-0.070	8.333	11.544	-13.224	30.929	-31.070	0.810
WAVE3	Feet	-0.092	6.510	9.587	-10.090	24.123	-24.308	-2.091
ML_1	Kips	329.819	26.410	377.283	278.383	428.065	231.574	302.993
ML_2	Kips	328.357	18.497	362.713	295.148	397.168	259.547	309.899
ML_3	Kips	320.337	18.710	355.796	283.184	389.939	250.734	319.732
ML_4	Kips	307.793	27.492	360.347	258.999	410.063	205.523	317.583
ML_5	Kips	301.204	19.078	340.182	267.285	372.174	230.235	303.875
ML_6	Kips	321.216	18.730	359.250	284.406	390.892	251.540	305.917
BT_1	Kips	1562.158	90.486	1785.842	1307.301	1898.765	1225.550	1492.637
BT_3	Kips	1478.858	108.891	1710.740	1205.023	1883.933	1073.784	1437.329
MST Surge	Feet	-3.165	1.378	1.223	-6.621	1.961	-8.291	-16.496
MST Sway	Feet	-1.152	0.819	0.730	-3.048	1.895	-4.198	2.438
MST Heave	Feet	2.310	4.410	10.053	-5.180	18.714	-14.095	11.604
Roll	Degs	0.091	0.093	0.338	-0.127	0.437	-0.255	-0.213
Pitch	Degs	-0.063	0.814	1.779	-1.607	2.964	-3.090	0.284
Yaw	Degs	-0.356	0.473	0.502	-1.133	1.405	-2.117	-1.800
Pt Surge	Feet	-2.942	3.464	3.424	-9.034	9.946	-15.830	-17.520
Pt Sway	Feet	-0.831	0.710	0.940	-2.605	1.811	-3.473	1.720
Pt Heave	Feet	2.331	4.411	10.065	-5.180	18.740	-14.079	11.608



ASOP2-1.HDR, A598.ZER, and A598.TST processed 11:22:32 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.270	4.633	17.269	-16.523	16.965	-17.505	-4.281
WAVE1	Feet	0.334	5.551	21.380	-19.132	20.983	-20.315	0.391
WAVE2	Feet	0.248	5.507	23.901	-17.580	20.733	-20.236	0.806
WAVE3	Feet	0.297	3.043	10.613	-11.095	11.617	-11.022	-2.102
ML_1	Kips	326.222	31.864	428.564	241.754	444.757	207.687	306.656
ML_2	Kips	322.247	19.021	380.493	270.256	393.007	251.488	312.428
ML_3	Kips	314.046	18.810	366.687	257.770	384.018	244.075	320.324
ML_4	Kips	302.190	32.796	397.883	206.449	424.191	180.188	315.276
ML_5	Kips	297.331	19.341	354.066	242.987	369.278	225.384	302.384
ML_6	Kips	317.081	18.000	370.477	265.695	384.041	250.121	305.972
BT_1	Kips	1497.813	220.903	2182.681	665.356	2319.571	676.055	1493.011
BT_3	Kips	1415.756	174.240	1946.280	799.756	2063.929	767.583	1418.394
MST Surge	Feet	-3.048	6.513	18.874	-24.016	21.181	-27.276	-16.636
MST Sway	Feet	0.025	0.762	2.101	-2.477	2.858	-2.808	1.765
MST Heave	Feet	0.723	3.368	11.947	-8.161	13.253	-11.808	11.782
Roll	Degs	-0.042	0.152	0.381	-0.798	0.525	-0.609	-0.127
Pitch	Degs	0.045	1.102	3.272	-3.188	4.144	-4.055	0.310
Yaw	Degs	-0.072	0.200	0.786	-0.745	0.673	-0.816	-1.902
Pt Surge	Feet	-3.205	5.335	12.189	-19.198	16.640	-23.050	-17.740
Pt Sway	Feet	-0.123	0.589	1.598	-1.972	2.066	-2.313	1.356
Pt Heave	Feet	0.761	3.374	11.949	-8.152	13.312	-11.790	11.785

ASOP2-1.HDR, A599.ZER, and A599.TST processed 11:36:13 04-24-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.178	10.941	47.960	-53.648	40.877	-40.522	-4.513
WAVE1	Feet	0.452	10.947	47.814	-43.866	41.173	-40.269	0.274
WAVE2	Feet	-0.070	10.750	48.738	-40.341	39.918	-40.059	0.797
WAVE3	Feet	-0.103	7.051	26.315	-30.375	26.127	-26.333	-2.108
ML_1	Kips	397.881	126.681	1432.209	135.529	869.136	-73.374	304.214
ML_2	Kips	351.744	52.432	782.321	209.804	546.789	156.698	308.793
ML_3	Kips	301.142	39.910	442.929	174.267	449.608	152.676	320.028
ML_4	Kips	267.754	73.830	664.390	82.579	542.400	-6.892	317.500
ML_5	Kips	284.828	40.360	420.020	170.091	434.967	134.689	304.646
ML_6	Kips	345.998	48.990	748.438	209.563	528.239	163.757	304.004
BT_1	Kips	1508.583	423.623	2704.018	23.411	3084.461	-67.295	1502.464
BT_3	Kips	1423.130	347.115	2528.201	103.528	2714.397	131.862	1432.685
MST Surge	Feet	-13.272	15.662	29.031	-73.473	44.992	-71.536	-16.080
MST Sway	Feet	-1.515	3.725	11.671	-17.337	12.343	-15.373	2.370
MST Heave	Feet	2.956	6.738	28.678	-19.017	28.023	-22.111	11.695
Roll	Degs	-0.026	0.909	3.146	-3.936	3.354	-3.406	-0.179
Pitch	Degs	-0.333	2.367	7.112	-8.825	8.474	-9.139	0.423
Yaw	Degs	-0.362	1.520	4.719	-4.158	5.291	-6.015	-1.968
Pt Surge	Feet	-12.112	12.902	33.524	-55.078	35.882	-60.106	-17.591
Pt Sway	Feet	-1.624	2.049	4.503	-7.595	5.998	-9.245	1.790
Pt Heave	Feet	3.157	6.787	30.261	-18.969	28.403	-22.089	11.702

ASOP2-1.HDR, A603.ZER, and A603.TST processed 11:42:00 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	1.171	4.111	7.971	-6.397	16.463	-14.121	-5.787
WAVE1	Feet	0.653	5.106	8.661	-7.958	19.646	-18.339	2.149
WAVE2	Feet	0.406	5.444	8.700	-8.377	20.657	-19.845	1.716
WAVE3	Feet	0.492	2.916	5.100	-4.192	11.339	-10.355	-0.962
ML_1	Kips	315.145	73.798	498.160	201.462	589.675	40.616	220.292
ML_2	Kips	288.626	37.728	359.157	227.584	428.972	148.280	237.594
ML_3	Kips	280.297	28.897	337.643	225.095	387.792	172.801	314.111
ML_4	Kips	263.625	66.452	386.622	142.637	510.827	16.424	345.777
ML_5	Kips	262.114	37.237	333.239	197.861	400.636	123.592	305.649
ML_6	Kips	307.102	33.066	370.477	250.727	430.109	184.095	259.846
BT_1	Kips	1686.413	64.429	1883.106	1470.705	1926.091	1446.735	1691.863
BT_3	Kips	1584.667	46.767	1731.523	1444.026	1758.641	1410.692	1583.656
MST Surge	Feet	-15.839	12.401	6.788	-39.946	30.292	-61.971	-3.636
MST Sway	Feet	-1.440	1.858	1.874	-5.248	5.471	-8.350	-3.948
MST Heave	Feet	1.759	1.144	4.659	-0.578	6.016	-2.499	10.585
Roll	Degs	-0.193	0.160	0.181	-0.544	0.403	-0.788	-0.033
Pitch	Degs	0.011	0.482	1.151	-1.499	1.803	-1.782	-0.336
Yaw	Degs	-0.971	0.281	-0.272	-1.622	0.073	-2.015	-2.064
Pt Surge	Feet	-15.888	12.163	5.432	-37.904	29.360	-61.135	-2.459
Pt Sway	Feet	-2.116	1.604	0.464	-5.462	3.850	-8.083	-4.106
Pt Heave	Feet	1.768	1.145	4.687	-0.572	6.027	-2.492	10.588

ASOP2-1.HDR, A604.ZER, and A604.TST processed 11:42:59 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.555	4.803	7.286	-8.232	18.421	-17.311	-4.987
WAVE1	Feet	0.124	4.751	7.252	-7.851	17.798	-17.549	2.547
WAVE2	Feet	0.068	5.460	7.765	-8.767	20.378	-20.243	1.924
WAVE3	Feet	0.084	3.378	5.308	-5.078	12.652	-12.483	-0.700
ML_1	Kips	314.877	41.686	410.249	230.765	469.950	159.804	341.223
ML_2	Kips	288.856	25.258	337.821	238.252	382.814	194.898	301.786
ML_3	Kips	276.363	16.115	308.598	235.987	336.310	216.417	260.191
ML_4	Kips	256.247	40.353	330.318	172.666	406.360	106.133	223.938
ML_5	Kips	258.392	25.214	301.998	208.274	352.188	164.596	239.490
ML_6	Kips	306.527	18.714	351.766	261.953	376.143	236.910	318.058
BT_1	Kips	1686.319	64.445	1871.435	1517.392	1926.055	1446.583	1685.379
BT_3	Kips	1599.013	51.483	1741.915	1475.201	1790.528	1407.497	1587.762
MST Surge	Feet	4.554	7.289	20.054	-10.006	31.671	-22.562	-25.147
MST Sway	Feet	0.291	1.474	3.245	-2.011	5.775	-5.193	-5.540
MST Heave	Feet	1.108	1.549	4.581	-2.140	6.871	-4.655	11.163
Roll	Degs	-0.016	0.147	0.279	-0.317	0.532	-0.565	-0.159
Pitch	Degs	-0.201	0.688	1.333	-1.779	2.358	-2.761	-0.328
Yaw	Degs	0.053	0.572	1.396	-0.629	2.182	-2.075	-2.304
Pt Surge	Feet	5.263	7.037	19.016	-8.658	31.442	-20.917	-24.015
Pt Sway	Feet	0.235	1.328	3.126	-2.070	5.174	-4.705	-6.144
Pt Heave	Feet	1.124	1.552	4.587	-2.122	6.897	-4.648	11.167

ASOP2-1.HDR, A605.ZER, and A605.TST processed 11:43:58 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.049	7.528	11.453	-12.340	27.957	-28.055	-4.557
WAVE1	Feet	0.384	8.352	14.319	-12.099	31.455	-30.688	2.401
WAVE2	Feet	0.055	7.723	12.717	-12.595	28.786	-28.676	1.877
WAVE3	Feet	0.026	5.259	8.097	-8.847	19.591	-19.539	-0.757
ML_1	Kips	325.679	21.677	369.957	278.383	406.319	245.040	313.575
ML_2	Kips	293.160	14.006	323.597	263.144	345.262	241.058	287.747
ML_3	Kips	271.018	14.291	304.968	239.617	324.181	217.856	272.427
ML_4	Kips	246.178	22.000	296.535	195.188	328.016	164.340	248.656
ML_5	Kips	254.770	14.404	291.584	222.159	308.353	201.187	251.575
ML_6	Kips	312.847	15.578	344.281	276.922	370.797	254.897	301.870
BT_1	Kips	1655.698	74.978	1859.763	1435.690	1934.615	1376.782	1684.024
BT_3	Kips	1570.741	64.215	1721.132	1398.997	1809.619	1331.863	1587.454
MST Surge	Feet	-3.871	2.814	1.926	-10.209	6.596	-14.338	-20.498
MST Sway	Feet	0.079	0.659	1.330	-1.633	2.531	-2.373	-5.379
MST Heave	Feet	1.186	3.049	7.131	-4.564	12.528	-10.156	10.962
Roll	Degs	0.161	0.113	0.406	-0.065	0.582	-0.260	-0.175
Pitch	Degs	-0.736	0.942	1.127	-2.670	2.767	-4.239	-0.407
Yaw	Degs	1.022	0.633	2.250	0.017	3.375	-1.331	-2.198
Pt Surge	Feet	-1.290	3.219	5.756	-9.003	10.685	-13.265	-19.089
Pt Sway	Feet	0.691	0.507	2.041	-0.736	2.577	-1.196	-6.052
Pt Heave	Feet	1.231	3.065	7.162	-4.562	12.631	-10.169	10.968

ASOP2-1.HDR, A606.ZER, and A606.TST processed 11:45:04 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.087	8.603	13.579	-13.892	32.090	-31.917	-4.499
WAVE1	Feet	0.449	8.340	14.033	-12.486	31.473	-30.575	2.282
WAVE2	Feet	0.101	8.309	12.601	-12.530	31.009	-30.807	1.811
WAVE3	Feet	0.113	6.106	8.891	-9.069	22.828	-22.602	-0.848
ML_1	Kips	307.186	25.103	355.305	256.406	400.569	213.802	294.853
ML_2	Kips	282.844	16.571	312.929	248.920	344.487	221.202	277.210
ML_3	Kips	276.594	17.320	308.598	243.248	341.023	212.165	279.661
ML_4	Kips	258.744	25.915	311.550	210.202	355.149	162.339	264.727
ML_5	Kips	259.091	17.872	295.055	225.631	325.576	192.606	260.472
ML_6	Kips	300.756	18.648	336.797	265.695	370.126	231.386	291.392
BT_1	Kips	1651.027	53.882	1785.842	1529.064	1851.468	1450.587	1682.353
BT_3	Kips	1573.514	59.715	1689.957	1444.026	1795.656	1351.373	1573.573
MST Surge	Feet	-3.576	1.247	0.742	-6.045	1.063	-8.216	-17.761
MST Sway	Feet	0.633	0.636	2.255	-1.118	3.001	-1.734	-5.499
MST Heave	Feet	0.505	3.822	6.996	-5.663	14.722	-13.711	10.997
Roll	Degs	-0.119	0.129	0.237	-0.385	0.363	-0.600	-0.010
Pitch	Degs	-0.653	0.872	1.122	-2.213	2.591	-3.897	-0.443
Yaw	Degs	0.757	0.404	1.550	0.019	2.260	-0.746	-1.758
Pt Surge	Feet	-1.273	3.375	5.302	-7.858	11.283	-13.829	-16.204
Pt Sway	Feet	0.246	0.596	1.482	-1.655	2.464	-1.972	-5.581
Pt Heave	Feet	0.543	3.834	7.022	-5.662	14.804	-13.719	11.003

ASOP2-1.HDR, A607.ZER, and A607.TST processed 11:46:02 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.355	9.145	15.292	-14.822	34.374	-33.664	-4.488
WAVE1	Feet	0.359	7.302	12.771	-12.434	27.524	-26.805	2.281
WAVE2	Feet	-0.003	8.367	12.542	-13.255	31.122	-31.129	1.810
WAVE3	Feet	0.036	6.539	9.591	-9.774	24.360	-24.288	-0.846
ML_1	Kips	295.016	29.017	340.653	241.754	402.960	187.072	286.116
ML_2	Kips	275.956	19.172	309.373	241.808	347.278	204.634	271.126
ML_3	Kips	280.071	18.723	312.229	250.509	349.722	210.420	281.006
ML_4	Kips	267.396	28.656	319.057	221.463	373.997	160.795	270.761
ML_5	Kips	262.738	19.691	298.527	229.102	335.988	189.487	264.097
ML_6	Kips	293.360	21.043	329.313	258.211	371.642	215.078	287.455
BT_1	Kips	1675.483	34.497	1743.046	1599.094	1803.811	1547.155	1683.649
BT_3	Kips	1587.117	36.456	1669.174	1516.766	1722.732	1451.502	1595.510
MST Surge	Feet	-1.310	1.345	3.065	-3.686	3.693	-6.313	-16.608
MST Sway	Feet	-0.103	0.402	0.762	-1.000	1.393	-1.599	-4.433
MST Heave	Feet	0.453	4.317	7.649	-5.993	16.512	-15.605	10.818
Roll	Degs	0.033	0.058	0.192	-0.097	0.248	-0.181	-0.366
Pitch	Degs	-0.014	0.706	1.329	-1.234	2.612	-2.641	-0.511
Yaw	Degs	-0.280	0.291	0.078	-0.804	0.803	-1.363	-1.791
Pt Surge	Feet	-1.259	3.664	6.299	-7.055	12.371	-14.889	-14.848
Pt Sway	Feet	0.014	0.489	1.191	-1.162	1.832	-1.804	-5.777
Pt Heave	Feet	0.469	4.317	7.652	-5.991	16.528	-15.591	10.831

ASOP2-1.HDR, A608.ZER, and A608.TST processed 13:21:05 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-2.430	4.420	14.768	-18.680	14.011	-18.872	-2.009
WAVE1	Feet	0.245	5.665	20.928	-17.714	21.319	-20.829	2.106
WAVE2	Feet	-0.121	5.400	22.293	-20.520	19.968	-20.210	2.050
WAVE3	Feet	-0.195	2.979	9.933	-12.399	10.886	-11.277	-0.485
ML_1	Kips	321.890	48.467	512.812	186.810	502.187	141.592	250.437
ML_2	Kips	284.224	23.720	341.377	216.916	372.462	195.986	248.288
ML_3	Kips	263.532	27.107	337.643	170.637	364.371	162.694	291.978
ML_4	Kips	233.954	45.309	356.593	90.087	402.504	65.403	295.507
ML_5	Kips	241.254	25.140	312.412	156.206	334.774	147.734	276.491
ML_6	Kips	306.098	28.998	374.219	217.047	413.970	198.227	267.747
BT_1	Kips	1665.424	214.960	2314.960	929.915	2465.074	865.773	1679.096
BT_3	Kips	1565.562	185.868	2098.688	976.411	2256.990	874.134	1583.939
MST Surge	Feet	-12.516	8.282	9.581	-33.544	18.294	-43.326	-10.908
MST Sway	Feet	-1.649	1.272	2.132	-5.365	3.083	-6.382	-3.378
MST Heave	Feet	0.790	4.249	12.138	-9.836	16.594	-15.015	10.816
Roll	Degs	0.109	0.327	1.221	-1.014	1.325	-1.107	-0.437
Pitch	Degs	-0.106	1.183	3.306	-4.291	4.294	-4.507	-0.462
Yaw	Degs	-0.436	0.324	0.270	-1.158	0.770	-1.642	-1.853
Pt Surge	Feet	-12.139	7.829	8.298	-35.207	16.984	-41.262	-9.333
Pt Sway	Feet	-1.268	0.544	0.300	-2.774	0.756	-3.293	-4.969
Pt Heave	Feet	0.836	4.255	12.218	-9.706	16.666	-14.993	10.829



ASOP2-1.HDR, A609.ZER, and A609.TST processed 13:51:04 04-25-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.746	10.712	48.730	-48.166	42.593	-37.101	-7.006
WAVE1	Feet	0.444	10.957	49.317	-43.222	41.204	-40.315	1.853
WAVE2	Feet	-0.325	10.887	48.566	-42.148	40.176	-40.826	1.636
WAVE3	Feet	-0.408	7.085	26.558	-29.507	25.949	-26.764	-1.024
ML_1	Kips	407.579	140.312	1336.973	109.888	929.539	-114.382	274.313
ML_2	Kips	312.839	46.982	608.077	174.244	487.612	138.067	260.352
ML_3	Kips	244.501	38.342	373.948	141.592	387.133	101.869	281.490
ML_4	Kips	189.819	73.385	533.013	30.029	462.813	-83.175	269.009
ML_5	Kips	217.681	44.327	361.009	111.080	382.579	52.783	253.452
ML_6	Kips	337.529	47.384	714.758	205.820	513.796	161.262	277.892
BT_1	Kips	1610.304	310.525	2688.456	350.219	2765.457	455.151	1679.038
BT_3	Kips	1534.485	234.225	2251.096	636.956	2405.804	663.167	1586.351
MST Surge	Feet	-20.682	15.391	24.232	-76.378	36.570	-77.935	-15.323
MST Sway	Feet	-2.021	2.630	6.537	-9.120	7.761	-11.803	-3.989
MST Heave	Feet	1.956	6.275	26.018	-13.644	25.300	-21.387	10.602
Roll	Degs	0.184	0.454	1.549	-1.236	1.875	-1.507	-0.556
Pitch	Degs	-0.833	2.293	5.507	-9.373	7.698	-9.365	-0.409
Yaw	Degs	-0.039	0.722	1.846	-1.373	2.648	-2.727	-2.080
Pt Surge	Feet	-17.752	13.491	29.859	-56.785	32.434	-67.938	-13.955
Pt Sway	Feet	-1.383	2.075	3.359	-8.252	6.336	-9.101	-5.996
Pt Heave	Feet	2.146	6.335	27.223	-13.640	25.714	-21.421	10.616

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-1.549	3.606	4.415	-7.998	11.864	-14.963	-0.278
WAVE1	Feet	-0.297	4.839	7.149	-9.166	17.704	-18.297	3.206
WAVE2	Feet	0.200	5.486	8.652	-9.394	20.607	-20.206	1.461
WAVE3	Feet	0.153	2.853	4.771	-4.678	10.767	-10.462	-0.554
ML_1	Kips	323.326	54.314	435.890	230.765	525.373	121.278	252.037
ML_2	Kips	299.030	6.071	320.041	284.480	321.615	276.446	293.410
ML_3	Kips	287.632	49.875	377.579	206.942	473.168	102.095	351.009
ML_4	Kips	276.881	52.043	375.361	187.681	470.480	83.282	342.413
ML_5	Kips	285.709	19.008	340.182	232.573	356.419	214.999	291.713
ML_6	Kips	305.265	53.886	404.156	220.789	505.720	104.811	236.756
BT_1	Kips	334.434	1.126	338.548	330.766	338.622	330.246	334.599
BT_3	Kips	303.057	1.694	304.430	300.966	309.360	296.755	304.712
MST Surge	Feet	-13.764	10.990	6.808	-35.781	27.120	-54.649	3.756
MST Sway	Feet	5.479	4.394	13.420	-1.624	21.824	-10.867	-3.674
MST Heave	Feet	1.252	0.884	3.999	-0.964	4.541	-2.037	11.540
Roll	Degs	-0.090	0.100	0.185	-0.338	0.281	-0.461	-0.087
Pitch	Degs	-0.026	1.182	2.672	-2.408	4.373	-4.424	-0.140
Yaw	Degs	0.053	0.090	0.231	-0.184	0.387	-0.281	-3.658
Pt Surge	Feet	-13.674	10.249	4.611	-30.162	24.452	-51.799	4.229
Pt Sway	Feet	5.162	4.183	12.362	-1.578	20.721	-10.398	-4.009
Pt Heave	Feet	1.296	0.889	4.003	-0.938	4.602	-2.011	11.541

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.056	4.183	5.976	-7.817	15.616	-15.503	-2.183
WAVE1	Feet	0.165	4.428	7.390	-8.471	16.638	-16.309	2.662
WAVE2	Feet	0.156	5.561	8.772	-8.850	20.845	-20.532	1.402
WAVE3	Feet	0.159	3.145	5.088	-4.751	11.859	-11.542	-0.637
ML_1	Kips	339.816	36.734	421.238	245.417	476.468	203.163	328.389
ML_2	Kips	308.335	23.237	359.157	266.700	394.775	221.895	290.881
ML_3	Kips	282.714	29.774	355.796	221.465	393.473	171.954	271.271
ML_4	Kips	264.439	31.594	352.840	202.695	381.969	146.909	264.532
ML_5	Kips	273.045	66.068	409.606	156.206	518.818	27.272	290.196
ML_6	Kips	314.122	35.365	389.188	232.016	445.681	182.562	315.092
BT_1	Kips	334.657	0.854	338.548	330.766	337.833	331.481	334.657
BT_3	Kips	301.290	1.041	304.430	297.502	305.163	297.417	301.684
MST Surge	Feet	-1.656	5.214	14.506	-9.929	17.740	-21.052	-11.228
MST Sway	Feet	-1.783	1.805	1.703	-6.139	4.933	-8.499	3.093
MST Heave	Feet	1.673	6.457	14.069	-9.522	25.691	-22.346	11.888
Roll	Degs	0.057	0.098	0.300	-0.408	0.423	-0.309	-0.185
Pitch	Degs	-0.062	0.514	1.251	-1.136	1.852	-1.975	-0.121
Yaw	Degs	0.025	0.208	0.529	-0.354	0.798	-0.748	-3.566
Pt Surge	Feet	-1.439	5.164	14.697	-10.105	17.769	-20.648	-10.843
Pt Sway	Feet	-1.581	1.808	1.757	-5.739	5.143	-8.305	2.417
Pt Heave	Feet	1.681	6.458	14.073	-9.519	25.706	-22.343	11.889

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.025	6.777	10.463	-11.031	25.237	-25.187	-2.647
WAVE1	Feet	0.388	9.055	15.935	-14.373	34.074	-33.297	2.553
WAVE2	Feet	0.066	7.940	13.595	-13.897	29.604	-29.472	1.362
WAVE3	Feet	0.075	4.851	7.784	-7.755	18.122	-17.971	-0.756
ML_1	Kips	450.698	41.583	556.767	369.957	605.387	296.008	303.337
ML_2	Kips	346.668	16.260	387.605	302.260	407.156	286.179	289.740
ML_3	Kips	238.784	14.935	275.923	203.312	294.343	183.224	294.958
ML_4	Kips	191.591	19.687	243.985	153.898	264.825	118.357	287.542
ML_5	Kips	207.921	45.016	343.653	135.378	375.382	40.460	291.006
ML_6	Kips	376.766	15.639	411.641	336.797	434.943	318.588	288.096
BT_1	Kips	334.866	1.153	338.548	330.766	339.156	330.576	334.981
BT_3	Kips	300.286	1.376	300.966	297.502	305.404	295.168	300.894
MST Surge	Feet	-21.707	2.237	-14.081	-25.491	-13.385	-30.030	-6.796
MST Sway	Feet	1.584	1.826	6.080	-2.131	8.375	-5.208	0.896
MST Heave	Feet	3.558	2.487	8.213	-1.010	12.811	-5.695	11.780
Roll	Degs	0.025	0.069	0.170	-0.227	0.281	-0.232	-0.147
Pitch	Degs	-0.323	0.773	1.034	-1.792	2.551	-3.197	-0.107
Yaw	Degs	-0.056	0.952	1.954	-1.836	3.487	-3.599	-3.460
Pt Surge	Feet	-20.570	2.991	-11.536	-26.199	-9.444	-31.696	-6.450
Pt Sway	Feet	1.671	1.794	5.704	-1.811	8.344	-5.001	0.357
Pt Heave	Feet	3.580	2.493	8.224	-1.009	12.855	-5.696	11.781

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.128	7.774	11.966	-12.862	28.792	-29.049	-2.311
WAVE1	Feet	0.197	8.077	13.348	-14.231	30.244	-29.849	2.462
WAVE2	Feet	0.096	8.567	14.024	-15.830	31.965	-31.774	1.296
WAVE3	Feet	0.044	5.255	8.710	-8.703	19.592	-19.504	-0.823
ML_1	Kips	434.571	56.795	670.318	329.665	645.848	223.294	308.962
ML_2	Kips	337.926	19.767	394.717	291.592	411.461	264.391	289.854
ML_3	Kips	240.565	19.484	294.076	199.681	313.044	168.087	289.585
ML_4	Kips	196.707	30.394	285.275	123.869	309.772	83.641	280.909
ML_5	Kips	213.860	53.779	374.894	128.436	413.918	13.802	290.530
ML_6	Kips	366.488	20.871	415.383	314.344	444.127	288.850	293.443
BT_1	Kips	335.410	1.608	338.548	330.766	341.393	329.427	334.974
BT_3	Kips	297.416	0.635	300.966	294.038	299.779	295.053	297.554
MST Surge	Feet	-18.288	3.179	-5.701	-27.854	-6.463	-30.114	-8.045
MST Sway	Feet	2.239	1.039	5.667	-0.394	6.105	-1.626	1.040
MST Heave	Feet	2.169	3.691	9.126	-4.107	15.898	-11.560	12.113
Roll	Degs	-0.060	0.062	0.089	-0.259	0.171	-0.291	-0.054
Pitch	Degs	-0.398	0.725	0.836	-1.542	2.298	-3.094	0.006
Yaw	Degs	1.495	1.139	3.695	-0.017	5.730	-2.740	-3.539
Pt Surge	Feet	-16.883	4.761	-2.149	-30.123	0.829	-34.594	-8.079
Pt Sway	Feet	2.068	1.016	5.020	-1.003	5.847	-1.711	0.853
Pt Heave	Feet	2.190	3.693	9.134	-4.102	15.927	-11.547	12.113

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.015	8.213	13.545	-13.581	30.568	-30.537	-2.396
WAVE1	Feet	0.378	7.654	13.315	-13.507	28.850	-28.095	2.344
WAVE2	Feet	-0.084	8.525	12.460	-13.276	31.627	-31.795	1.407
WAVE3	Feet	-0.082	5.527	8.232	-8.322	20.477	-20.641	-0.814
ML_1	Kips	335.210	36.715	461.530	256.406	471.791	198.628	291.027
ML_2	Kips	302.606	23.228	355.601	256.032	389.013	216.200	288.405
ML_3	Kips	280.458	24.408	334.012	221.465	371.254	189.662	305.882
ML_4	Kips	263.142	34.792	337.825	168.913	392.567	133.717	297.453
ML_5	Kips	273.669	71.019	423.491	149.263	537.859	9.479	295.004
ML_6	Kips	310.387	26.960	374.219	250.727	410.679	210.094	274.787
BT_1	Kips	337.503	1.724	338.548	334.657	343.917	331.089	335.810
BT_3	Kips	294.590	1.293	297.502	290.575	299.402	289.778	296.322
MST Surge	Feet	-7.522	3.663	2.640	-19.278	6.105	-21.148	-4.698
MST Sway	Feet	1.511	1.280	4.545	-1.504	6.272	-3.250	-0.241
MST Heave	Feet	1.109	4.772	8.737	-6.243	18.862	-16.644	11.772
Roll	Degs	0.000	0.046	0.150	-0.122	0.173	-0.172	-0.156
Pitch	Degs	0.004	0.660	1.037	-1.128	2.459	-2.452	-0.053
Yaw	Degs	-0.022	0.428	0.763	-0.716	1.569	-1.613	-3.696
Pt Surge	Feet	-7.535	5.465	5.983	-21.655	12.795	-27.865	-4.549
Pt Sway	Feet	1.513	1.344	4.532	-1.760	6.514	-3.489	-0.801
Pt Heave	Feet	1.122	4.773	8.739	-6.243	18.878	-16.633	11.773

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-1.980	4.321	14.652	-17.991	14.093	-18.054	-2.238
WAVE1	Feet	0.545	5.526	27.393	-17.664	21.103	-20.013	2.107
WAVE2	Feet	0.100	5.480	24.364	-16.754	20.485	-20.284	0.948
WAVE3	Feet	0.104	2.967	10.454	-10.551	11.142	-10.934	-1.865
ML_1	Kips	361.374	77.885	780.206	179.484	651.108	71.640	382.736
ML_2	Kips	330.445	32.872	433.833	248.920	452.728	208.162	313.903
ML_3	Kips	284.335	47.414	432.037	177.898	460.714	107.956	240.854
ML_4	Kips	267.487	55.559	427.912	108.855	474.165	60.809	235.588
ML_5	Kips	244.706	86.611	541.513	83.310	566.898	-77.485	262.040
ML_6	Kips	344.440	52.828	561.328	217.047	540.959	147.920	387.192
BT_1	Kips	340.865	1.909	342.438	338.548	347.968	333.763	339.989
BT_3	Kips	274.169	1.727	276.719	269.792	280.595	267.743	272.537
MST Surge	Feet	4.356	11.657	33.900	-33.345	47.719	-39.007	-18.148
MST Sway	Feet	-4.649	5.139	7.293	-17.283	14.466	-23.765	4.290
MST Heave	Feet	1.385	3.651	12.908	-8.231	14.968	-12.198	11.862
Roll	Degs	-0.013	0.201	0.604	-0.668	0.733	-0.760	-0.276
Pitch	Degs	-0.084	1.553	5.650	-4.797	5.693	-5.861	0.064
Yaw	Degs	-0.281	0.594	0.826	-2.055	1.928	-2.489	-3.681
Pt Surge	Feet	4.651	10.456	33.784	-25.041	43.549	-34.247	-18.434
Pt Sway	Feet	-4.698	4.877	6.288	-17.405	13.446	-22.841	3.335
Pt Heave	Feet	1.461	3.657	12.924	-8.205	15.065	-12.144	11.864

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.290	10.720	45.756	-50.450	40.169	-39.588	-4.262
WAVE1	Feet	0.582	11.220	48.503	-42.268	42.319	-41.155	2.363
WAVE2	Feet	0.008	10.907	44.895	-39.581	40.581	-40.565	0.885
WAVE3	Feet	-0.006	7.095	25.605	-30.070	26.388	-26.401	-1.945
ML_1	Kips	690.986	362.535	3179.431	135.529	2039.618	-657.645	306.547
ML_2	Kips	412.720	102.708	1052.578	216.916	794.795	30.645	314.193
ML_3	Kips	222.215	56.212	410.254	68.981	431.323	13.107	307.415
ML_4	Kips	167.518	90.776	619.346	26.275	505.203	-170.168	303.292
ML_5	Kips	169.562	107.964	704.662	31.241	571.189	-232.065	251.986
ML_6	Kips	422.922	111.971	1605.398	213.305	839.455	6.388	307.940
BT_1	Kips	339.914	1.922	342.438	334.657	347.065	332.763	339.470
BT_3	Kips	278.008	2.399	283.647	269.792	286.933	269.084	274.359
MST Surge	Feet	-33.710	21.348	30.537	-88.460	45.705	-113.124	-6.264
MST Sway	Feet	2.016	3.691	11.605	-11.406	15.748	-11.716	-1.415
MST Heave	Feet	3.546	5.721	31.240	-11.682	24.829	-17.737	11.522
Roll	Degs	-0.115	0.260	0.630	-1.258	0.853	-1.084	-0.273
Pitch	Degs	-0.380	2.114	5.948	-7.353	7.485	-8.246	0.141
Yaw	Degs	0.184	1.248	3.291	-3.120	4.827	-4.459	-3.758
Pt Surge	Feet	-32.374	20.539	33.081	-89.148	44.031	-108.779	-6.823
Pt Sway	Feet	1.615	3.600	10.161	-10.879	15.009	-11.778	-2.340
Pt Heave	Feet	3.690	5.749	32.070	-11.553	25.075	-17.695	11.524



Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-2.093	4.407	5.198	-10.089	14.302	-18.489	-3.934
WAVE1	Feet	0.535	5.436	8.405	-8.315	20.758	-19.688	0.132
WAVE2	Feet	0.239	5.216	8.341	-8.797	19.643	-19.165	1.227
WAVE3	Feet	0.275	2.740	4.646	-4.334	10.467	-9.917	-1.522
ML_1	Kips	355.902	74.041	538.452	234.428	631.333	80.471	393.644
ML_2	Kips	308.441	24.965	348.489	266.700	401.311	215.570	304.341
ML_3	Kips	321.224	44.030	406.623	243.248	485.015	157.434	284.878
ML_4	Kips	314.535	49.385	405.390	217.710	498.246	130.824	353.590
ML_5	Kips	297.752	27.600	340.182	253.401	400.423	195.081	303.464
ML_6	Kips	321.904	61.012	430.352	213.305	548.870	94.939	290.338
BT_1	Kips	353.991	0.837	358.000	350.219	357.105	350.877	353.995
BT_3	Kips	256.203	1.088	259.400	252.473	260.251	252.154	256.090
MST Surge	Feet	6.182	11.711	28.311	-15.672	49.748	-37.383	-28.003
MST Sway	Feet	-3.929	3.051	1.282	-9.331	7.421	-15.279	7.318
MST Heave	Feet	0.466	0.757	2.595	-1.408	3.281	-2.349	10.715
Roll	Degs	0.018	0.050	0.145	-0.100	0.205	-0.169	0.118
Pitch	Degs	-0.039	0.378	0.693	-0.713	1.367	-1.445	0.087
Yaw	Degs	0.031	0.158	0.430	-0.245	0.618	-0.555	-3.441
Pt Surge	Feet	6.320	11.610	27.090	-14.597	49.509	-36.870	-28.285
Pt Sway	Feet	-3.865	3.119	1.321	-9.407	7.739	-15.470	7.751
Pt Heave	Feet	0.470	0.757	2.597	-1.403	3.286	-2.345	10.715

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.431	5.025	7.403	-8.804	19.123	-18.261	-6.598
WAVE1	Feet	0.373	5.195	7.840	-8.324	19.700	-18.954	0.242
WAVE2	Feet	0.125	5.613	7.610	-9.406	21.005	-20.756	1.291
WAVE3	Feet	0.148	3.433	5.050	-5.335	12.919	-12.624	-1.458
ML_1	Kips	348.942	30.988	417.575	278.383	464.217	233.668	376.279
ML_2	Kips	305.810	13.582	337.821	273.812	356.336	255.284	317.775
ML_3	Kips	321.971	22.018	370.318	275.923	403.880	240.062	306.581
ML_4	Kips	314.504	26.963	367.854	251.492	414.805	214.203	333.488
ML_5	Kips	300.188	15.123	340.182	267.285	356.447	243.930	286.159
ML_6	Kips	325.130	28.861	385.445	261.953	432.495	217.766	298.072
BT_1	Kips	354.088	0.785	358.000	350.219	357.008	351.168	354.139
BT_3	Kips	257.021	1.634	259.400	252.473	263.098	250.943	256.193
MST Surge	Feet	4.576	5.025	14.666	-5.467	23.271	-14.119	-25.965
MST Sway	Feet	0.116	1.973	3.625	-3.521	7.454	-7.222	3.842
MST Heave	Feet	0.205	1.361	2.894	-2.210	5.266	-4.856	10.731
Roll	Degs	-0.031	0.048	0.105	-0.136	0.146	-0.208	0.173
Pitch	Degs	-0.019	0.445	0.832	-0.739	1.637	-1.675	0.024
Yaw	Degs	0.151	0.113	0.446	-0.073	0.572	-0.270	-3.171
Pt Surge	Feet	4.643	4.987	15.031	-6.002	23.196	-13.910	-26.016
Pt Sway	Feet	0.007	2.076	3.805	-3.840	7.729	-7.715	4.454
Pt Heave	Feet	0.211	1.360	2.894	-2.210	5.272	-4.849	10.732

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.077	8.131	12.451	-13.066	30.323	-30.168	-6.589
WAVE1	Feet	0.323	8.015	11.594	-13.056	30.139	-29.493	0.276
WAVE2	Feet	0.021	8.049	11.800	-12.302	29.963	-29.921	1.280
WAVE3	Feet	-0.037	5.403	8.097	-8.379	20.061	-20.134	-1.460
ML_1	Kips	355.007	24.216	410.249	307.687	445.092	264.921	347.816
ML_2	Kips	306.794	15.611	337.821	273.812	364.866	248.722	304.236
ML_3	Kips	320.189	14.298	348.534	290.445	373.377	267.001	322.825
ML_4	Kips	318.908	22.825	360.347	274.014	403.815	234.000	316.916
ML_5	Kips	300.500	17.872	336.710	263.814	366.984	234.016	302.666
ML_6	Kips	324.042	22.291	370.477	276.922	406.965	241.119	327.234
BT_1	Kips	354.067	1.045	358.000	350.219	357.953	350.181	354.081
BT_3	Kips	258.438	1.551	259.400	255.936	264.210	252.667	257.681
MST Surge	Feet	-1.129	1.917	1.938	-5.244	6.002	-8.260	-20.914
MST Sway	Feet	0.247	0.623	1.433	-0.868	2.565	-2.071	3.876
MST Heave	Feet	0.117	3.049	5.168	-4.487	11.459	-11.224	10.538
Roll	Degs	-0.039	0.039	0.052	-0.151	0.108	-0.185	0.171
Pitch	Degs	-0.003	0.656	1.117	-1.039	2.436	-2.442	-0.053
Yaw	Degs	-0.047	0.194	0.363	-0.364	0.674	-0.769	-3.063
Pt Surge	Feet	-1.118	3.080	4.957	-8.612	10.340	-12.577	-20.695
Pt Sway	Feet	0.112	0.690	1.607	-1.272	2.677	-2.453	4.468
Pt Heave	Feet	0.130	3.049	5.174	-4.484	11.471	-11.211	10.539

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.043	9.260	14.534	-15.006	34.491	-34.405	-6.373
WAVE1	Feet	0.252	8.246	14.190	-12.633	30.928	-30.424	0.409
WAVE2	Feet	-0.037	8.464	12.808	-13.414	31.449	-31.524	1.302
WAVE3	Feet	-0.079	6.163	9.320	-9.733	22.849	-23.007	-1.433
ML_1	Kips	354.366	36.972	443.216	271.058	491.902	216.830	355.604
ML_2	Kips	306.462	20.857	348.489	259.588	384.049	228.875	306.923
ML_3	Kips	324.361	21.721	373.948	279.554	405.162	243.559	320.055
ML_4	Kips	319.172	28.496	375.361	258.999	425.176	213.168	323.478
ML_5	Kips	302.036	24.277	354.066	253.401	392.347	211.726	299.889
ML_6	Kips	329.649	34.088	407.898	258.211	456.455	202.842	323.464
BT_1	Kips	354.059	0.766	358.000	350.219	356.907	351.212	353.995
BT_3	Kips	259.211	0.842	262.864	255.936	262.342	256.080	259.144
MST Surge	Feet	0.262	4.258	9.376	-7.897	16.102	-15.578	-22.014
MST Sway	Feet	-0.246	0.885	1.324	-2.059	3.046	-3.538	3.983
MST Heave	Feet	0.172	3.870	6.606	-5.696	14.567	-14.223	10.590
Roll	Degs	0.031	0.042	0.120	-0.093	0.185	-0.124	0.133
Pitch	Degs	0.044	0.632	1.165	-0.936	2.395	-2.307	-0.063
Yaw	Degs	0.470	0.434	1.436	-0.069	2.085	-1.145	-3.461
Pt Surge	Feet	0.108	5.235	12.163	-11.149	19.583	-19.368	-21.765
Pt Sway	Feet	-0.138	0.954	1.741	-2.328	3.410	-3.687	4.436
Pt Heave	Feet	0.184	3.869	6.609	-5.692	14.576	-14.208	10.590

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.524	9.694	16.260	-15.463	36.584	-35.536	-6.375
WAVE1	Feet	0.298	7.183	11.531	-11.200	27.019	-26.423	0.441
WAVE2	Feet	-0.124	8.352	11.458	-12.462	30.944	-31.193	1.319
WAVE3	Feet	-0.117	6.470	9.459	-9.828	23.952	-24.187	-1.416
ML_1	Kips	345.490	32.225	413.912	282.046	465.366	225.614	330.343
ML_2	Kips	300.634	20.224	337.821	263.144	375.866	225.402	298.388
ML_3	Kips	330.486	20.297	373.948	290.445	405.990	254.982	340.655
ML_4	Kips	315.727	26.272	364.100	262.753	413.461	217.994	304.265
ML_5	Kips	307.472	23.788	354.066	260.343	395.962	218.981	309.506
ML_6	Kips	342.507	30.465	404.156	284.406	455.835	229.179	352.874
BT_1	Kips	354.041	0.697	358.000	350.219	356.634	351.448	354.052
BT_3	Kips	260.135	1.424	262.864	255.936	265.431	254.839	259.452
MST Surge	Feet	-2.314	2.739	3.918	-8.525	7.874	-12.502	-17.857
MST Sway	Feet	1.082	0.711	2.528	-0.585	3.725	-1.562	2.811
MST Heave	Feet	0.199	4.288	6.855	-6.141	16.149	-15.751	10.326
Roll	Degs	-0.039	0.059	0.081	-0.158	0.182	-0.259	0.157
Pitch	Degs	-0.040	0.510	0.852	-0.838	1.856	-1.936	-0.016
Yaw	Degs	0.235	0.191	0.575	-0.048	0.944	-0.474	-3.482
Pt Surge	Feet	-2.172	4.088	6.690	-10.826	13.037	-17.380	-17.768
Pt Sway	Feet	0.946	0.810	2.678	-1.056	3.959	-2.066	3.360
Pt Heave	Feet	0.207	4.288	6.858	-6.140	16.160	-15.745	10.327

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.085	4.851	18.328	-17.878	18.130	-17.961	-6.260
WAVE1	Feet	0.579	5.787	27.357	-21.943	22.107	-20.950	0.375
WAVE2	Feet	0.205	5.579	21.650	-19.468	20.960	-20.551	1.361
WAVE3	Feet	0.250	3.020	10.191	-11.595	11.485	-10.986	-1.367
ML_1	Kips	397.500	70.117	706.947	238.091	658.334	136.666	337.994
ML_2	Kips	318.434	24.378	384.049	238.252	409.118	227.749	294.543
ML_3	Kips	310.306	26.646	388.471	228.726	409.428	211.185	332.318
ML_4	Kips	342.364	31.707	435.419	240.231	460.314	224.413	315.526
ML_5	Kips	286.986	26.824	361.009	204.803	386.771	187.201	314.366
ML_6	Kips	307.302	45.768	434.094	175.883	477.560	137.044	350.130
BT_1	Kips	353.827	1.138	358.000	350.219	358.060	349.595	354.110
BT_3	Kips	262.420	1.175	266.328	259.400	266.790	258.050	260.888
MST Surge	Feet	-9.033	8.931	14.931	-33.771	24.190	-42.255	-18.957
MST Sway	Feet	-0.813	1.131	2.234	-3.980	3.394	-5.020	4.399
MST Heave	Feet	-0.254	2.286	5.524	-6.983	8.250	-8.758	10.593
Roll	Degs	-0.060	0.058	0.149	-0.272	0.155	-0.274	0.173
Pitch	Degs	-0.032	0.564	1.705	-2.126	2.067	-2.132	-0.047
Yaw	Degs	-0.366	0.686	1.417	-1.646	2.187	-2.920	-3.026
Pt Surge	Feet	-8.921	8.866	14.296	-33.828	24.059	-41.901	-18.760
Pt Sway	Feet	-1.024	1.154	2.238	-4.492	3.268	-5.316	4.999
Pt Heave	Feet	-0.244	2.286	5.525	-6.971	8.261	-8.749	10.594

ASOP2-1.HDR, A809.ZER, and A809.TST processed 16:43:37 04-29-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.327	11.614	49.171	-54.046	43.531	-42.877	-6.298
WAVE1	Feet	0.487	11.054	48.577	-45.174	41.609	-40.635	0.622
WAVE2	Feet	-0.214	10.698	45.558	-40.735	39.583	-40.011	1.434
WAVE3	Feet	-0.257	6.959	24.662	-31.169	25.632	-26.146	-1.314
ML_1	Kips	497.748	190.007	1772.863	128.203	1204.573	-209.077	323.458
ML_2	Kips	335.528	47.999	640.081	177.800	514.086	156.970	296.408
ML_3	Kips	291.041	42.165	464.712	159.745	447.896	134.187	351.106
ML_4	Kips	364.152	53.701	720.694	176.420	563.919	164.384	296.926
ML_5	Kips	261.865	49.113	437.376	104.137	444.565	79.165	309.157
ML_6	Kips	271.927	81.361	755.922	86.070	574.589	-30.735	366.760
BT_1	Kips	353.462	1.723	358.000	346.329	359.872	347.052	354.110
BT_3	Kips	264.815	1.735	269.792	259.400	271.268	258.362	263.057
MST Surge	Feet	-20.892	15.131	36.293	-67.728	35.396	-77.179	-16.531
MST Sway	Feet	1.247	1.697	5.433	-4.718	7.560	-5.065	2.002
MST Heave	Feet	-0.460	4.623	18.093	-20.012	16.737	-17.658	10.343
Roll	Degs	-0.074	0.103	0.256	-0.437	0.311	-0.459	0.136
Pitch	Degs	-0.226	1.013	3.234	-5.752	3.542	-3.994	-0.013
Yaw	Degs	0.381	0.932	2.865	-2.041	3.848	-3.086	-3.748
Pt Surge	Feet	-20.095	15.305	36.275	-68.117	36.840	-77.029	-16.455
Pt Sway	Feet	0.994	1.796	4.757	-5.677	7.675	-5.686	2.478
Pt Heave	Feet	-0.427	4.630	18.606	-19.965	16.796	-17.650	10.343

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-1.103	4.308	5.984	-9.189	14.921	-17.128	-4.490
WAVE1	Feet	0.358	4.918	7.043	-8.211	18.652	-17.935	0.786
WAVE2	Feet	0.149	5.572	7.683	-9.213	20.876	-20.579	1.583
WAVE3	Feet	0.178	3.011	5.014	-4.668	11.378	-11.023	-1.110
ML_1	Kips	290.373	16.970	322.339	260.069	353.501	227.245	252.471
ML_2	Kips	297.463	7.476	312.929	284.480	325.274	269.653	278.580
ML_3	Kips	305.465	10.650	330.382	283.184	345.084	265.846	321.480
ML_4	Kips	285.560	17.072	319.057	251.492	349.069	222.050	316.277
ML_5	Kips	273.084	7.968	291.584	256.872	302.725	243.442	286.519
ML_6	Kips	300.865	12.095	325.570	276.922	345.860	255.870	279.611
BT_1	Kips	1665.767	60.798	1805.295	1560.188	1891.934	1439.599	1641.084
BT_3	Kips	1671.759	43.986	1780.017	1596.434	1835.388	1508.131	1656.961
MST Surge	Feet	-7.940	3.137	-1.718	-13.563	3.729	-19.609	-6.506
MST Sway	Feet	0.280	0.404	1.001	-1.021	1.781	-1.221	-0.717
MST Heave	Feet	0.792	0.884	2.988	-1.298	4.081	-2.497	10.403
Roll	Degs	-0.067	0.074	0.157	-0.234	0.208	-0.341	0.074
Pitch	Degs	-0.337	0.344	0.400	-1.104	0.943	-1.617	-0.807
Yaw	Degs	-0.032	0.054	0.137	-0.149	0.169	-0.234	-0.500
Pt Surge	Feet	-6.753	2.960	-1.875	-11.507	4.259	-17.766	-3.663
Pt Sway	Feet	0.044	0.262	0.733	-0.747	1.019	-0.931	-0.483
Pt Heave	Feet	0.800	0.887	2.992	-1.297	4.098	-2.499	10.424



Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	1.800	5.189	9.195	-7.471	21.104	-17.504	-7.701
WAVE1	Feet	0.214	4.964	6.990	-8.063	18.679	-18.252	0.739
WAVE2	Feet	0.101	5.777	7.984	-10.123	21.591	-21.388	1.524
WAVE3	Feet	0.120	3.569	5.310	-5.622	13.396	-13.156	-1.172
ML_1	Kips	295.243	12.083	329.665	271.058	340.193	250.293	285.139
ML_2	Kips	295.596	7.564	316.485	277.368	323.735	267.457	290.012
ML_3	Kips	298.654	7.246	315.859	279.554	325.611	271.698	299.024
ML_4	Kips	275.849	12.278	304.043	247.738	321.524	230.173	279.241
ML_5	Kips	268.844	8.743	288.113	246.458	301.368	236.321	269.317
ML_6	Kips	302.393	10.501	329.313	280.664	341.458	263.328	299.042
BT_1	Kips	1636.311	61.157	1801.404	1513.502	1863.815	1408.807	1642.179
BT_3	Kips	1645.854	48.707	1780.017	1541.013	1827.044	1464.665	1655.550
MST Surge	Feet	-1.913	2.086	2.432	-8.075	5.848	-9.674	-13.073
MST Sway	Feet	-0.325	0.450	0.556	-1.596	1.348	-1.998	-0.411
MST Heave	Feet	0.562	1.420	3.799	-1.912	5.846	-4.722	10.506
Roll	Degs	-0.015	0.081	0.283	-0.219	0.285	-0.316	0.059
Pitch	Degs	-0.129	0.583	1.057	-1.484	2.038	-2.296	-0.839
Yaw	Degs	-1.366	0.531	-0.585	-2.505	0.611	-3.343	-0.428
Pt Surge	Feet	-1.461	1.705	1.858	-6.024	4.883	-7.805	-10.119
Pt Sway	Feet	-0.390	0.325	0.401	-1.287	0.819	-1.599	-0.224
Pt Heave	Feet	0.573	1.422	3.813	-1.898	5.862	-4.716	10.528

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.158	8.156	14.752	-10.880	32.500	-28.183	-8.315
WAVE1	Feet	0.504	8.710	12.810	-13.103	32.906	-31.899	0.627
WAVE2	Feet	-0.016	8.131	12.398	-12.733	30.230	-30.263	1.531
WAVE3	Feet	0.022	5.504	8.043	-8.433	20.499	-20.454	-1.172
ML_1	Kips	325.116	22.064	377.283	271.058	407.194	243.039	278.193
ML_2	Kips	308.931	13.636	334.265	273.812	359.658	258.204	285.376
ML_3	Kips	281.231	15.277	315.859	243.248	338.061	224.401	299.508
ML_4	Kips	245.966	23.067	300.289	187.681	331.776	160.156	282.717
ML_5	Kips	251.491	15.922	284.642	215.217	310.720	192.263	268.725
ML_6	Kips	316.364	19.488	355.508	273.180	388.861	243.867	293.692
BT_1	Kips	1644.890	97.160	1883.106	1517.392	2006.327	1283.453	1642.063
BT_3	Kips	1632.141	76.587	1814.655	1478.664	1917.043	1347.238	1648.648
MST Surge	Feet	-9.664	2.367	-3.917	-16.295	-0.857	-18.470	-12.419
MST Sway	Feet	-1.196	0.532	-0.011	-2.713	0.782	-3.174	-0.121
MST Heave	Feet	0.993	2.900	6.651	-4.234	11.782	-9.796	10.143
Roll	Degs	0.080	0.097	0.470	-0.096	0.441	-0.280	0.017
Pitch	Degs	-0.794	0.963	0.956	-2.715	2.790	-4.377	-0.849
Yaw	Degs	-1.178	0.607	-0.285	-2.336	1.082	-3.437	-0.545
Pt Surge	Feet	-6.864	3.286	0.820	-14.880	5.358	-19.086	-9.428
Pt Sway	Feet	-0.971	0.460	0.034	-2.188	0.738	-2.681	-0.089
Pt Heave	Feet	1.042	2.920	6.702	-4.229	11.904	-9.820	10.165

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.029	9.233	14.243	-14.722	34.376	-34.317	-4.818
WAVE1	Feet	0.358	8.447	14.355	-12.113	31.782	-31.065	0.647
WAVE2	Feet	-0.051	8.615	13.185	-13.218	31.999	-32.100	1.531
WAVE3	Feet	-0.080	6.359	9.603	-10.153	23.575	-23.735	-1.170
ML_1	Kips	310.068	23.580	358.968	271.058	397.785	222.351	267.612
ML_2	Kips	301.533	16.037	334.265	273.812	361.191	241.875	280.108
ML_3	Kips	285.581	17.036	315.859	254.140	348.956	222.206	303.838
ML_4	Kips	249.973	25.548	296.535	198.941	345.013	154.934	286.776
ML_5	Kips	252.745	19.275	288.113	215.217	324.447	181.042	269.445
ML_6	Kips	301.191	19.772	336.797	265.695	374.741	227.641	281.745
BT_1	Kips	1660.623	72.341	1844.201	1532.954	1929.733	1391.514	1645.032
BT_3	Kips	1637.025	64.525	1762.698	1471.737	1877.057	1396.993	1645.107
MST Surge	Feet	-9.411	1.222	-6.828	-12.296	-4.864	-13.958	-10.677
MST Sway	Feet	-0.941	0.826	1.326	-2.588	2.133	-4.016	-0.243
MST Heave	Feet	0.366	3.732	6.821	-5.281	14.250	-13.519	10.091
Roll	Degs	0.145	0.167	0.563	-0.312	0.767	-0.478	-0.026
Pitch	Degs	-0.723	0.896	1.121	-2.345	2.612	-4.058	-0.874
Yaw	Degs	-0.557	0.969	1.093	-2.541	3.047	-4.161	-0.341
Pt Surge	Feet	-6.861	3.326	-1.029	-13.445	5.510	-19.233	-7.602
Pt Sway	Feet	-0.458	0.557	0.816	-1.708	1.613	-2.528	-0.353
Pt Heave	Feet	0.408	3.748	6.875	-5.280	14.350	-13.534	10.114

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.761	9.697	17.582	-12.763	38.834	-33.313	-7.237
WAVE1	Feet	0.326	7.413	13.478	-11.728	27.901	-27.250	0.615
WAVE2	Feet	-0.098	8.526	11.146	-12.593	31.618	-31.813	1.511
WAVE3	Feet	-0.102	6.683	9.640	-10.428	24.759	-24.964	-1.207
ML_1	Kips	288.182	28.810	336.990	223.439	395.355	181.009	270.786
ML_2	Kips	289.054	19.917	323.597	248.920	363.146	214.962	279.081
ML_3	Kips	291.417	19.669	330.382	257.770	364.585	218.249	297.572
ML_4	Kips	262.179	30.485	326.564	210.202	375.582	148.777	277.128
ML_5	Kips	257.839	22.657	301.998	218.688	342.122	173.557	267.105
ML_6	Kips	286.118	21.536	321.828	243.242	366.231	206.005	280.027
BT_1	Kips	1628.655	40.643	1715.812	1548.517	1779.846	1477.465	1645.896
BT_3	Kips	1639.902	52.777	1752.306	1551.405	1836.233	1443.571	1644.697
MST Surge	Feet	-3.566	1.812	1.802	-7.282	3.173	-10.305	-11.819
MST Sway	Feet	-0.653	0.476	0.757	-1.819	1.117	-2.423	0.445
MST Heave	Feet	0.412	4.401	7.462	-6.094	16.785	-15.960	9.885
Roll	Degs	0.088	0.087	0.288	-0.132	0.413	-0.237	-0.062
Pitch	Degs	-0.135	0.708	1.218	-1.440	2.499	-2.769	-0.825
Yaw	Degs	0.509	0.210	0.997	0.192	1.289	-0.271	-0.348
Pt Surge	Feet	-3.094	3.932	6.538	-9.663	11.532	-17.720	-8.916
Pt Sway	Feet	-0.339	0.493	0.857	-1.474	1.494	-2.172	0.209
Pt Heave	Feet	0.429	4.403	7.472	-6.094	16.808	-15.951	9.906

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.298	4.783	20.009	-16.197	20.091	-15.494	-7.136
WAVE1	Feet	0.476	5.641	25.225	-18.670	21.461	-20.508	0.587
WAVE2	Feet	0.215	5.479	21.691	-18.761	20.595	-20.165	1.502
WAVE3	Feet	0.260	3.052	10.273	-11.826	11.615	-11.094	-1.215
ML_1	Kips	297.337	49.662	545.778	164.832	482.080	112.594	268.805
ML_2	Kips	292.319	24.285	369.825	216.916	382.659	201.979	278.185
ML_3	Kips	285.402	26.173	359.426	196.051	382.765	188.038	297.249
ML_4	Kips	251.883	46.766	379.115	97.594	425.852	77.914	275.487
ML_5	Kips	249.842	27.585	322.825	156.206	352.457	147.227	263.763
ML_6	Kips	286.581	27.025	366.734	198.336	387.114	186.048	274.593
BT_1	Kips	1657.293	139.525	2116.541	1233.380	2176.324	1138.261	1644.110
BT_3	Kips	1646.303	109.520	2012.092	1274.299	2053.718	1238.889	1641.002
MST Surge	Feet	-6.079	8.123	18.389	-30.623	24.139	-36.297	-11.730
MST Sway	Feet	-0.732	1.346	2.579	-4.126	4.275	-5.740	0.491
MST Heave	Feet	0.942	3.054	10.568	-6.617	12.304	-10.419	9.810
Roll	Degs	0.134	0.302	1.031	-0.829	1.256	-0.988	-0.156
Pitch	Degs	-0.412	1.012	2.484	-3.979	3.354	-4.178	-0.779
Yaw	Degs	-0.479	0.519	0.974	-1.674	1.454	-2.411	-0.403
Pt Surge	Feet	-4.627	8.075	19.389	-30.652	25.411	-34.665	-8.991
Pt Sway	Feet	-0.270	0.804	1.875	-2.418	2.721	-3.262	-0.076
Pt Heave	Feet	0.982	3.065	10.655	-6.605	12.383	-10.419	9.829

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.381	11.624	50.170	-55.806	43.622	-42.860	-4.998
WAVE1	Feet	0.406	11.140	48.934	-43.555	41.848	-41.035	0.569
WAVE2	Feet	-0.203	10.945	45.465	-41.676	40.513	-40.919	1.527
WAVE3	Feet	-0.271	7.234	25.312	-31.613	26.638	-27.180	-1.183
ML_1	Kips	403.449	170.005	1545.760	76.922	1035.867	-228.968	253.231
ML_2	Kips	326.271	55.883	757.429	170.688	534.156	118.387	273.233
ML_3	Kips	253.429	43.302	410.254	148.853	414.513	92.345	304.564
ML_4	Kips	192.101	83.170	634.361	22.522	501.494	-117.292	282.717
ML_5	Kips	217.123	48.067	388.779	86.781	395.931	38.315	254.480
ML_6	Kips	319.881	60.038	789.602	149.688	543.221	96.540	257.213
BT_1	Kips	1691.760	259.446	2474.474	894.900	2656.901	726.620	1646.530
BT_3	Kips	1685.021	209.914	2309.981	820.539	2465.901	904.141	1632.278
MST Surge	Feet	-24.738	19.657	48.584	-102.224	48.386	-97.862	-9.749
MST Sway	Feet	-2.513	4.467	8.992	-21.416	14.103	-19.130	-0.230
MST Heave	Feet	1.779	5.272	30.248	-13.180	21.390	-17.831	9.655
Roll	Degs	0.701	0.947	4.003	-1.621	4.224	-2.822	-0.155
Pitch	Degs	-1.469	2.882	6.016	-13.147	9.253	-12.191	-0.849
Yaw	Degs	-1.005	0.976	1.149	-3.757	2.627	-4.637	-0.500
Pt Surge	Feet	-19.536	15.535	38.129	-65.944	38.255	-77.326	-6.766
Pt Sway	Feet	-0.131	2.134	5.769	-9.741	7.808	-8.070	-0.801
Pt Heave	Feet	2.143	5.358	30.885	-12.543	22.076	-17.790	9.678

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	1.564	4.033	7.986	-5.692	16.568	-13.441	-4.308
WAVE1	Feet	0.478	5.241	8.042	-8.324	19.975	-19.020	1.253
WAVE2	Feet	0.091	4.954	8.419	-9.748	18.518	-18.336	1.936
WAVE3	Feet	-0.103	2.648	4.386	-5.453	9.749	-9.955	-3.840
ML_1	Kips	281.670	91.591	472.519	146.518	622.388	-59.049	250.789
ML_2	Kips	329.526	36.266	398.273	270.256	464.436	194.617	319.329
ML_3	Kips	289.482	53.836	384.840	203.312	489.752	89.211	302.682
ML_4	Kips	324.617	90.017	502.984	180.173	659.479	-10.245	343.942
ML_5	Kips	262.189	39.752	333.239	197.861	410.065	114.313	264.508
ML_6	Kips	348.608	55.162	445.320	265.695	553.811	143.404	328.952
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-4.642	17.401	26.097	-34.184	60.091	-69.375	6.028
MST Sway	Feet	1.032	1.742	4.667	-1.780	7.511	-5.448	-1.555
MST Heave	Feet	1.184	1.184	4.750	-1.057	5.587	-3.219	9.209
Roll	Degs	0.119	0.201	0.540	-0.206	0.867	-0.628	-1.319
Pitch	Degs	-0.025	0.883	2.498	-2.721	3.261	-3.310	-0.282
Yaw	Degs	0.066	0.226	0.420	-0.541	0.905	-0.774	-0.783
Pt Surge	Feet	-4.556	17.189	24.908	-31.525	59.387	-68.498	6.956
Pt Sway	Feet	1.451	2.449	6.584	-2.501	10.562	-7.661	-6.210
Pt Heave	Feet	1.210	1.180	4.752	-1.056	5.601	-3.181	9.265

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.055	4.793	6.939	-8.578	17.777	-17.886	-3.261
WAVE1	Feet	0.455	4.783	7.202	-7.750	18.247	-17.338	1.183
WAVE2	Feet	0.202	5.470	8.094	-8.922	20.549	-20.145	1.776
WAVE3	Feet	0.395	3.355	5.486	-5.290	12.875	-12.085	-4.081
ML_1	Kips	304.662	37.779	395.597	238.091	445.198	164.125	270.976
ML_2	Kips	342.206	17.300	384.049	309.373	406.562	277.851	320.278
ML_3	Kips	277.876	20.965	315.859	232.356	355.867	199.885	284.556
ML_4	Kips	300.671	37.008	360.347	225.217	438.343	163.000	323.339
ML_5	Kips	248.091	18.392	281.170	215.217	316.509	179.672	259.906
ML_6	Kips	361.461	22.792	415.383	318.086	446.247	276.674	343.921
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-5.051	7.469	7.560	-20.176	22.733	-32.834	1.054
MST Sway	Feet	-1.003	0.500	0.667	-2.021	0.857	-2.863	-0.127
MST Heave	Feet	2.073	1.525	5.850	-0.777	7.745	-3.599	8.796
Roll	Degs	-0.116	0.058	0.077	-0.234	0.099	-0.331	-1.151
Pitch	Degs	-0.095	0.530	1.033	-1.215	1.879	-2.068	-0.281
Yaw	Degs	-0.401	0.531	0.374	-1.703	1.573	-2.375	-0.685
Pt Surge	Feet	-4.720	7.579	8.067	-19.496	23.474	-32.915	1.995
Pt Sway	Feet	-1.415	0.707	0.944	-2.843	1.214	-4.044	-4.190
Pt Heave	Feet	2.082	1.525	5.857	-0.776	7.756	-3.592	8.839



ASOP2-1.HDR, A1005.ZER, and A1005.TST processed 15:47:54 05-03-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.003	6.462	10.031	-10.774	24.043	-24.037	-3.364
WAVE1	Feet	0.266	6.020	9.191	-9.903	22.660	-22.129	1.316
WAVE2	Feet	0.030	6.190	8.241	-9.563	23.058	-22.998	1.811
WAVE3	Feet	-0.217	4.483	6.614	-7.207	16.461	-16.895	-3.803
ML_1	Kips	287.663	25.120	340.653	219.776	381.111	194.215	265.957
ML_2	Kips	330.488	15.442	362.713	291.592	387.931	273.045	317.775
ML_3	Kips	280.777	15.589	319.490	250.509	338.768	222.787	287.111
ML_4	Kips	311.108	25.672	379.115	255.246	406.609	215.608	327.259
ML_5	Kips	251.430	17.651	295.055	215.217	317.092	185.768	260.034
ML_6	Kips	350.789	16.806	385.445	310.602	413.307	288.270	340.151
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-3.540	3.725	5.338	-9.920	10.318	-17.398	2.278
MST Sway	Feet	-0.218	0.452	0.661	-1.227	1.463	-1.899	-0.779
MST Heave	Feet	0.702	2.974	5.544	-4.237	11.767	-10.363	9.099
Roll	Degs	-0.025	0.052	0.092	-0.141	0.169	-0.219	-1.228
Pitch	Degs	-0.085	0.616	1.096	-1.256	2.208	-2.378	-0.257
Yaw	Degs	0.702	0.405	1.613	0.159	2.207	-0.804	-0.886
Pt Surge	Feet	-3.240	4.626	8.722	-12.753	13.969	-20.449	3.115
Pt Sway	Feet	-0.301	0.638	0.999	-1.733	2.073	-2.675	-5.115
Pt Heave	Feet	0.714	2.975	5.545	-4.235	11.782	-10.355	9.147

ASOP2-1.HDR, A1006.ZER, and A1006.TST processed 15:53:27 05-03-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.013	8.753	13.525	-14.406	32.548	-32.574	-3.525
WAVE1	Feet	0.329	8.125	13.859	-14.984	30.554	-29.895	1.396
WAVE2	Feet	-0.011	8.427	12.883	-14.852	31.335	-31.358	1.832
WAVE3	Feet	0.020	6.087	8.729	-9.465	22.663	-22.623	-3.810
ML_1	Kips	316.319	28.345	373.620	245.417	421.760	210.877	266.275
ML_2	Kips	345.005	18.205	380.493	302.260	412.729	277.281	320.683
ML_3	Kips	267.956	18.239	308.598	232.356	335.806	200.106	289.689
ML_4	Kips	287.252	29.099	356.593	232.724	395.499	179.006	328.676
ML_5	Kips	237.854	21.000	284.642	197.861	315.972	159.735	256.727
ML_6	Kips	366.513	17.862	400.414	325.570	432.957	300.068	337.213
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-10.000	3.229	-1.121	-15.562	2.013	-22.013	2.835
MST Sway	Feet	0.351	0.353	1.247	-0.775	1.664	-0.962	-1.351
MST Heave	Feet	1.012	3.793	7.207	-5.256	15.121	-13.096	9.089
Roll	Degs	0.041	0.041	0.143	-0.090	0.193	-0.112	-1.295
Pitch	Degs	-0.089	0.838	1.387	-1.597	3.029	-3.206	-0.290
Yaw	Degs	0.907	0.471	1.881	0.142	2.659	-0.844	-0.661
Pt Surge	Feet	-9.689	4.799	3.705	-19.761	8.165	-27.543	3.803
Pt Sway	Feet	0.498	0.502	1.755	-1.153	2.368	-1.371	-5.920
Pt Heave	Feet	1.034	3.795	7.208	-5.245	15.150	-13.082	9.143

ASOP2-1.HDR, A1007.ZER, and A1007.TST processed 15:59:00 05-03-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	2.443	9.439	17.133	-13.211	37.554	-32.669	-5.984
WAVE1	Feet	0.207	7.349	10.788	-11.740	27.546	-27.132	1.436
WAVE2	Feet	-0.093	8.573	11.560	-13.934	31.799	-31.985	1.883
WAVE3	Feet	-0.011	6.598	9.683	-10.307	24.535	-24.556	-3.826
ML_1	Kips	270.684	29.475	329.665	208.788	380.331	161.038	260.577
ML_2	Kips	319.708	19.851	355.601	284.480	393.555	245.861	317.793
ML_3	Kips	283.066	19.694	319.490	246.879	356.327	209.806	290.697
ML_4	Kips	328.340	29.957	382.869	274.014	439.780	216.901	334.202
ML_5	Kips	258.032	22.364	295.055	222.159	341.228	174.836	257.040
ML_6	Kips	341.211	20.347	385.445	295.633	416.903	265.519	331.755
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-1.492	2.324	4.107	-7.392	7.154	-10.138	3.898
MST Sway	Feet	0.748	0.402	1.726	-0.446	2.244	-0.748	-1.550
MST Heave	Feet	0.319	4.374	7.570	-6.511	16.591	-15.952	8.854
Roll	Degs	0.086	0.047	0.197	-0.051	0.260	-0.087	-1.318
Pitch	Degs	0.018	0.749	1.415	-1.313	2.805	-2.770	-0.318
Yaw	Degs	-0.254	0.237	0.226	-0.631	0.626	-1.134	-0.148
Pt Surge	Feet	-1.553	4.491	7.893	-12.348	15.153	-18.258	5.005
Pt Sway	Feet	1.052	0.562	2.412	-0.635	3.144	-1.039	-6.193
Pt Heave	Feet	0.337	4.374	7.571	-6.511	16.607	-15.933	8.911

ASOP2-1.HDR, A1008.ZER, and A1008.TST processed 16:14:01 05-03-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.002	4.603	17.729	-17.673	17.122	-17.126	-3.821
WAVE1	Feet	0.504	5.571	26.250	-19.161	21.228	-20.220	1.431
WAVE2	Feet	0.237	5.223	19.923	-16.593	19.666	-19.193	1.817
WAVE3	Feet	0.219	2.896	10.742	-9.717	10.993	-10.555	-3.792
ML_1	Kips	311.558	68.752	677.644	164.832	567.317	55.800	259.852
ML_2	Kips	338.535	30.513	448.057	263.144	452.044	225.027	314.456
ML_3	Kips	264.547	30.688	348.534	181.528	378.706	150.389	284.717
ML_4	Kips	293.620	55.441	442.926	127.623	499.861	87.378	334.238
ML_5	Kips	238.386	32.242	326.297	145.792	358.325	118.446	259.520
ML_6	Kips	359.943	32.634	467.773	280.664	481.343	238.543	327.566
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-9.923	11.418	20.460	-51.004	32.551	-52.398	4.079
MST Sway	Feet	-0.195	1.031	3.682	-3.322	3.641	-4.031	-0.842
MST Heave	Feet	1.207	3.902	14.746	-8.856	15.724	-13.310	8.550
Roll	Degs	-0.022	0.119	0.425	-0.382	0.421	-0.466	-1.235
Pitch	Degs	-0.104	1.359	3.455	-4.566	4.953	-5.160	-0.278
Yaw	Degs	-0.061	0.357	0.615	-0.917	1.267	-1.389	-0.485
Pt Surge	Feet	-9.559	10.303	15.837	-42.403	28.770	-47.888	5.020
Pt Sway	Feet	-0.275	1.453	5.187	-4.678	5.132	-5.681	-5.197
Pt Heave	Feet	1.265	3.904	14.752	-8.838	15.787	-13.258	8.599

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.144	11.318	48.471	-55.551	42.248	-41.959	-3.874
WAVE1	Feet	0.463	11.400	51.817	-43.652	42.869	-41.943	1.575
WAVE2	Feet	-0.148	11.121	48.414	-39.998	41.222	-41.519	1.848
WAVE3	Feet	-0.075	7.272	25.598	-31.405	26.975	-27.125	-3.734
ML_1	Kips	473.856	198.476	1531.109	95.236	1212.186	-264.475	261.507
ML_2	Kips	397.127	70.947	817.881	220.472	661.049	133.205	306.449
ML_3	Kips	226.752	45.142	370.318	119.809	394.680	58.824	274.336
ML_4	Kips	216.355	81.873	566.796	67.565	520.921	-88.211	329.345
ML_5	Kips	195.213	48.024	347.124	86.781	373.863	16.563	260.806
ML_6	Kips	413.668	69.950	864.445	228.273	673.884	153.452	336.935
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-26.456	16.688	35.298	-70.464	35.623	-88.534	1.756
MST Sway	Feet	-2.982	1.744	2.801	-9.007	3.507	-9.471	0.674
MST Heave	Feet	3.327	5.884	24.760	-15.187	25.214	-18.560	7.996
Roll	Degs	-0.348	0.203	0.324	-1.057	0.406	-1.102	-1.057
Pitch	Degs	-2.922	4.603	4.057	-22.541	14.200	-20.044	-0.321
Yaw	Degs	-0.870	0.986	1.488	-3.366	2.799	-4.538	-0.320
Pt Surge	Feet	-16.253	20.555	62.410	-65.653	60.211	-92.716	2.866
Pt Sway	Feet	-4.293	2.574	4.957	-14.543	5.281	-13.866	-3.052
Pt Heave	Feet	4.242	6.242	38.831	-15.142	27.463	-18.979	8.033

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.050	0.062	0.114	-0.231	0.180	-0.279	-0.114
WAVE1	Feet	0.512	6.045	9.053	-9.030	22.998	-21.974	1.403
WAVE2	Feet	0.087	5.564	8.464	-8.976	20.786	-20.611	2.376
WAVE3	Feet	-0.163	3.059	4.882	-5.113	11.219	-11.544	-1.524
ML_1	Kips	312.927	16.934	344.316	278.383	375.922	249.932	326.951
ML_2	Kips	305.000	8.004	323.597	288.036	334.773	275.227	309.214
ML_3	Kips	280.616	9.136	301.337	261.401	314.603	246.628	270.356
ML_4	Kips	262.600	16.627	296.535	232.724	324.451	200.749	247.182
ML_5	Kips	274.861	8.837	291.584	256.872	307.734	241.989	266.874
ML_6	Kips	292.383	8.929	310.602	265.695	325.600	259.165	302.008
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	2.809	3.739	10.355	-4.754	16.717	-11.100	-4.587
MST Sway	Feet	-0.266	0.194	0.208	-1.141	0.456	-0.988	4.685
MST Heave	Feet	0.577	0.810	2.268	-1.108	3.590	-2.436	9.659
Roll	Degs	-0.030	0.023	0.023	-0.133	0.056	-0.116	-0.584
Pitch	Degs	-0.038	0.389	0.583	-0.723	1.410	-1.487	-2.117
Yaw	Degs	-0.118	0.042	-0.035	-0.217	0.037	-0.273	0.113
Pt Surge	Feet	2.943	3.519	8.945	-2.927	16.035	-10.149	2.866
Pt Sway	Feet	-0.373	0.275	0.288	-1.614	0.651	-1.397	2.644
Pt Heave	Feet	0.582	0.810	2.268	-1.103	3.594	-2.431	9.807

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-0.001	0.013	0.115	-0.115	0.046	-0.048	-0.115
WAVE1	Feet	0.361	5.568	8.557	-8.213	21.073	-20.351	1.293
WAVE2	Feet	0.099	6.084	7.871	-9.327	22.731	-22.532	2.242
WAVE3	Feet	0.191	3.851	5.673	-5.806	14.517	-14.135	-2.237
ML_1	Kips	312.221	11.086	340.653	285.709	353.460	270.983	302.532
ML_2	Kips	302.962	6.955	320.041	288.036	328.833	277.090	297.756
ML_3	Kips	278.111	6.154	294.076	261.401	301.003	255.220	282.055
ML_4	Kips	259.517	9.726	281.521	232.724	295.697	223.338	267.980
ML_5	Kips	274.173	6.975	291.584	256.872	300.121	248.226	279.731
ML_6	Kips	291.433	6.953	310.602	265.695	317.297	265.570	288.869
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-2.143	1.890	2.269	-7.304	4.888	-9.174	0.029
MST Sway	Feet	-0.203	0.198	0.225	-0.720	0.534	-0.940	4.798
MST Heave	Feet	0.021	1.360	2.498	-2.021	5.078	-5.037	9.930
Roll	Degs	-0.022	0.024	0.040	-0.084	0.067	-0.111	-0.571
Pitch	Degs	-0.006	0.534	0.821	-0.898	1.979	-1.991	-2.157
Yaw	Degs	0.114	0.066	0.263	-0.023	0.359	-0.130	0.049
Pt Surge	Feet	-2.122	1.694	2.123	-6.695	4.182	-8.425	7.623
Pt Sway	Feet	-0.281	0.279	0.358	-1.017	0.756	-1.319	2.796
Pt Heave	Feet	0.030	1.359	2.501	-2.021	5.086	-5.027	10.083

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	-4.664	7.431	6.667	-18.505	22.977	-32.306	-0.116
WAVE1	Feet	0.394	7.899	12.169	-12.229	29.779	-28.991	1.217
WAVE2	Feet	-0.025	8.216	11.750	-12.351	30.539	-30.588	2.299
WAVE3	Feet	-0.326	5.674	8.094	-9.163	20.780	-21.433	-2.393
ML_1	Kips	311.736	19.254	347.979	278.383	383.361	240.112	293.795
ML_2	Kips	302.247	13.532	327.153	277.368	352.587	251.908	294.595
ML_3	Kips	278.337	12.689	301.337	254.140	325.540	231.133	286.815
ML_4	Kips	260.695	18.151	292.782	228.970	328.217	193.174	274.625
ML_5	Kips	275.948	14.689	301.998	249.929	330.589	221.306	281.865
ML_6	Kips	289.728	15.158	318.086	265.695	346.116	233.341	281.440
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-3.451	0.997	-1.351	-5.637	0.256	-7.158	1.593
MST Sway	Feet	0.260	0.147	0.564	-0.113	0.807	-0.287	4.472
MST Heave	Feet	0.623	3.163	6.255	-4.464	12.390	-11.143	9.369
Roll	Degs	0.030	0.019	0.077	-0.016	0.100	-0.040	-0.608
Pitch	Degs	0.062	0.833	1.297	-1.226	3.161	-3.037	-2.230
Yaw	Degs	0.026	0.046	0.154	-0.080	0.197	-0.146	0.054
Pt Surge	Feet	-3.669	2.345	0.941	-8.111	5.056	-12.394	9.445
Pt Sway	Feet	0.367	0.210	0.837	-0.169	1.148	-0.415	2.340
Pt Heave	Feet	0.645	3.162	6.260	-4.458	12.407	-11.118	9.533



ASOP2-1.HDR, A1106.ZER, and A1106.TST processed 11:01:41 05-06-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.041	9.106	14.072	-14.548	33.917	-33.834	-5.796
WAVE1	Feet	0.268	8.623	13.718	-13.963	32.345	-31.809	1.285
WAVE2	Feet	-0.070	8.791	14.140	-14.382	32.631	-32.772	2.331
WAVE3	Feet	-0.256	6.520	9.554	-10.514	23.999	-24.510	-2.838
ML_1	Kips	312.096	25.616	362.631	267.395	407.386	216.806	296.427
ML_2	Kips	301.944	17.260	334.265	270.256	366.151	237.737	294.990
ML_3	Kips	277.876	16.638	304.968	246.879	339.768	215.985	284.125
ML_4	Kips	260.077	24.809	304.043	213.956	352.367	167.787	272.151
ML_5	Kips	275.944	19.187	308.940	242.987	347.322	204.567	282.070
ML_6	Kips	289.389	18.253	325.570	265.695	357.288	221.489	282.993
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-2.959	1.405	-0.369	-6.354	2.268	-8.187	1.025
MST Sway	Feet	0.049	0.206	0.516	-0.431	0.814	-0.715	4.648
MST Heave	Feet	0.477	3.963	7.037	-5.541	15.221	-14.267	9.470
Roll	Degs	0.005	0.025	0.071	-0.053	0.097	-0.086	-0.586
Pitch	Degs	0.040	0.858	1.343	-1.252	3.232	-3.152	-2.201
Yaw	Degs	0.438	0.251	0.742	0.041	1.370	-0.495	0.011
Pt Surge	Feet	-3.101	3.793	3.753	-10.988	11.008	-17.211	8.771
Pt Sway	Feet	0.067	0.290	0.793	-0.644	1.146	-1.013	2.586
Pt Heave	Feet	0.499	3.963	7.046	-5.540	15.240	-14.241	9.629

ASOP2-1.HDR, A1107.ZER, and A1107.TST processed 11:08:22 05-06-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	5.295	0.618	6.532	3.544	7.596	2.995	-5.727
WAVE1	Feet	0.146	7.496	13.258	-12.402	28.032	-27.740	1.289
WAVE2	Feet	-0.077	8.657	11.869	-13.807	32.128	-32.283	2.301
WAVE3	Feet	-0.145	6.793	9.826	-10.555	25.124	-25.413	-3.110
ML_1	Kips	303.983	27.893	347.979	256.406	407.747	200.220	297.729
ML_2	Kips	297.529	19.080	327.153	266.700	368.507	226.551	295.175
ML_3	Kips	279.883	17.852	308.598	250.509	346.293	213.473	282.593
ML_4	Kips	265.043	27.414	311.550	221.463	367.024	163.063	268.342
ML_5	Kips	278.609	21.309	312.412	246.458	357.878	199.339	279.808
ML_6	Kips	285.078	18.337	318.086	250.727	353.294	216.863	280.941
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-0.982	1.544	2.435	-3.927	4.760	-6.725	0.512
MST Sway	Feet	0.135	0.182	0.529	-0.279	0.812	-0.542	4.636
MST Heave	Feet	0.455	4.308	7.618	-6.112	16.481	-15.571	9.150
Roll	Degs	0.015	0.023	0.072	-0.037	0.099	-0.069	-0.587
Pitch	Degs	0.047	0.731	1.172	-1.123	2.768	-2.674	-2.192
Yaw	Degs	0.078	0.170	0.304	-0.293	0.711	-0.555	0.345
Pt Surge	Feet	-1.147	4.069	6.125	-7.641	13.991	-16.286	8.239
Pt Sway	Feet	0.188	0.260	0.789	-0.416	1.154	-0.778	2.615
Pt Heave	Feet	0.472	4.308	7.621	-6.105	16.497	-15.554	9.308

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.137	4.184	16.097	-15.167	15.700	-15.426	-5.177
WAVE1	Feet	0.488	5.655	23.664	-20.938	21.525	-20.548	1.137
WAVE2	Feet	0.213	5.626	21.365	-18.844	21.141	-20.715	2.312
WAVE3	Feet	-0.764	3.190	9.529	-13.428	11.103	-12.632	-3.204
ML_1	Kips	326.134	38.214	520.137	216.113	468.290	183.977	297.078
ML_2	Kips	306.934	18.415	369.825	248.920	375.439	238.429	294.490
ML_3	Kips	268.129	19.561	326.751	210.573	340.897	195.362	282.350
ML_4	Kips	244.414	35.863	352.840	131.376	377.823	111.005	268.981
ML_5	Kips	267.451	20.932	333.239	201.332	345.317	189.584	281.350
ML_6	Kips	297.621	19.879	355.508	235.758	371.571	223.672	280.775
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-6.119	7.075	13.448	-29.338	20.201	-32.440	0.914
MST Sway	Feet	-0.057	0.509	1.416	-1.678	1.838	-1.952	4.693
MST Heave	Feet	0.820	2.218	9.796	-5.104	9.072	-7.432	9.175
Roll	Degs	-0.008	0.059	0.174	-0.199	0.213	-0.229	-0.580
Pitch	Degs	0.033	0.607	1.923	-2.568	2.292	-2.226	-2.204
Yaw	Degs	0.089	0.217	0.558	-0.480	0.897	-0.720	0.247
Pt Surge	Feet	-6.235	6.909	13.296	-26.128	19.466	-31.936	8.680
Pt Sway	Feet	-0.084	0.717	2.032	-2.377	2.583	-2.751	2.685
Pt Heave	Feet	0.832	2.219	9.801	-5.101	9.084	-7.421	9.335

ASOP2-1.HDR, A1109.ZER, and A1109.TST processed 11:35:28 05-06-1996

Response		Mean	RMS	Max	Min	1/1000+	1/1000-	Zeros
STROKE	Feet	0.066	0.020	0.181	-0.049	0.139	-0.007	-0.181
WAVE1	Feet	0.417	11.385	51.386	-43.123	42.770	-41.936	1.147
WAVE2	Feet	-0.238	11.258	44.412	-42.123	41.641	-42.116	2.337
WAVE3	Feet	-0.058	7.484	25.555	-30.980	27.784	-27.900	-4.550
ML_1	Kips	389.383	127.783	1336.973	113.551	864.737	-85.971	295.960
ML_2	Kips	327.171	42.485	615.189	192.024	485.216	169.126	295.000
ML_3	Kips	248.700	37.108	359.426	130.700	386.742	110.659	283.840
ML_4	Kips	203.583	69.875	420.405	33.783	463.517	-56.351	268.227
ML_5	Kips	247.347	44.114	371.423	131.907	411.452	83.243	278.591
ML_6	Kips	315.707	40.338	580.039	175.883	465.764	165.651	277.234
BT_1	Kips	9605.899	0.000	9605.899	9605.899	9605.899	9605.899	9605.899
BT_3	Kips	8731.900	0.000	8731.900	8731.900	8731.900	8731.900	8731.900
MST Surge	Feet	-14.505	13.103	32.654	-51.874	34.237	-63.246	0.920
MST Sway	Feet	0.246	0.916	2.727	-2.084	3.656	-3.163	4.177
MST Heave	Feet	1.134	5.197	26.379	-19.156	20.467	-18.200	9.069
Roll	Degs	0.027	0.106	0.314	-0.245	0.423	-0.369	-0.643
Pitch	Degs	-0.181	1.196	3.613	-5.405	4.268	-4.629	-2.121
Yaw	Degs	0.057	0.686	1.400	-1.248	2.610	-2.496	0.209
Pt Surge	Feet	-13.870	13.194	31.674	-56.742	35.212	-62.952	8.394
Pt Sway	Feet	0.343	1.293	3.833	-3.058	5.151	-4.465	1.943
Pt Heave	Feet	1.179	5.201	26.544	-19.122	20.528	-18.171	9.220